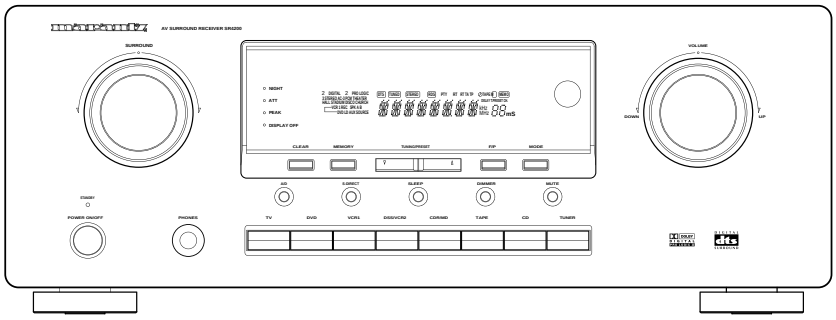
Service Manual

SR4200/N1B,/N1G,/F1N,/K1G,/L1G,/U1B

AV Surround Receiver



DIGITAL dts SURROUND

DOLBY DIGITAL PRO LOGIC II

SR4200

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Please use this service manual with referring to the user guide (D.F.U) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行って下さい。

marantz®

SR4200

319W855010 AO
3120 785 22690
First Issue:2001.08

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA

MARANTZ AMERICA, INC.
1100 MAPLEWOOD DRIVE
ITASCA, IL. 60143
USA
PHONE : 630 - 741 - 0300
FAX : 630 - 741 - 0301

EUROPE / TRADING

MARANTZ EUROPE B.V.
P.O.BOX 80002, BUILDING SFF2
5600 JB EINDHOVEN
THE NETHERLANDS
PHONE : +31 - 40 - 2732241
FAX : +31 - 40 - 2735578

BRAZIL

PHILIPS DA AMAZONIA IND. ELET. ITDA
CENTRO DE INFORMACOES AO
CEP 04698-970
SAO PAULO, SP, BRAZIL
PHONE : 0800 - 123123(Discagem Direta Gratuita)
FAX : +55 11 534. 8988

PROFESSIONAL **AMERICAS**

SUPERSCOPE TECHNOLOGIES, INC.
MARANTZ PROFESSIONAL PRODUCTS
2640 WHITE OAK CIRCLE, SUITE A
AURORA, ILLINOIS 60504 USA
PHONE : 630 - 820 - 4800
FAX : 630 - 820 - 8103

PROFESSIONAL **AUSTRALIA**

TECHNICAL AUDIO GROUP PTY, LTD
558 DARLING STREET,
BALMAIN, NSW 2041,
AUSTRALIA
PHONE : 61 - 2 - 9810 - 5300
FAX : 61 - 2 - 9810 - 5355

CANADA

LENBROOK INDUSTRIES LIMITED
633 GRANITE COURT,
PICKERING, ONTARIO L1W 3K1
CANADA
PHONE : 905 - 831 - 6333
FAX : 905 - 831 - 6936

AUSTRALIA

QualiFi Pty Ltd,
24 LIONEL ROAD,
MT. WAVERLEY VIC 3149
AUSTRALIA
PHONE : +61 - (0)3 - 9543 - 1522
FAX : +61 - (0)3 - 9543 - 3677

THAILAND

MRZ STANDARD CO.,LTD
746 - 754 MAHACHAI ROAD.,
WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
PHONE : +66 - 2 - 222 9181
FAX : +66 - 2 - 224 6795

SINGAPORE

WO KEE HONG DISTRIBUTION PTE LTD
130 JOO SENG ROAD
#03-02 OLIVINE BUILDING
SINGAPORE 368357
PHONE : +65 858 5535 / +65 381 8621
FAX : +65 858 6078

NEW ZEALAND

WILDASH AUDIO SYSTEMS NZ
14 MALVERN ROAD MT ALBERT
AUCKLAND NEW ZEALAND
PHONE : +64 - 9 - 8451958
FAX : +64 - 9 - 8463554

TAIWAN

PAI- YUING CO., LTD.
6 TH FL NO, 148 SUNG KIANG ROAD,
TAIPEI, 10429, TAIWAN R.O.C.
PHONE : +886 - 2 - 25221304
FAX : +886 - 2 - 25630415

MALAYSIA

WO KEE HONG ELECTRONICS SDN. BHD.
SUITE 8.1, LEVEL 8, MENARA GENESIS,
NO. 33, JALAN SULTAN ISMAIL,
50250 KUALA LUMPUR, MALAYSIA
PHONE : +60 3 - 2457677
FAX : +60 3 - 2458180

JAPAN *Technical*

MARANTZ JAPAN, INC.
35- 1, 7- CHOME, SAGAMIONO
SAGAMIHARA - SHI, KANAGAWA
JAPAN 228-8505
PHONE : +81 42 748 1013
FAX : +81 42 741 9190

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本 社 〒228-8505
神奈川県相模原市相模大野7-35-1
営業本部 〒150-0022
東京都渋谷区恵比寿南1-11-9

KOREA

MK ENTERPRISES LTD.
ROOM 604/605, ELECTRO-OFFICETEL, 16-58,
3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

FM TUNER SECTION

Frequency Range	76.0 - 90.0 MHz (F)
	87.5 - 108.0 MHz (K, /L, /N, /U)
Usable Sensitivity	IHF 1.8 µV/16.4 dBf
Signal to Noise Ratio	Mono/Stereo 70/65 dB
Distortion	Mono/Stereo 0.2/0.3 %
Stereo Separation	1 kHz 45 dB
Alternate Channel Selectivity	± 300 kHz 60 dB
Image Rejection	82 MHz 70 dB (F)
	98 MHz 70 dB (K, /L, /N, /U)
Tuner Output Level	1 kHz, ±40 kHz Dev 600 mV

AM TUNER SECTION

Frequency Range	531 - 1602 kHz (F, /K, /L)
	LW: 152 - 282 kHz, MW: 531 - 1602 kHz kHz (N)
	520 - 1710 kHz (U)
Signal to Noise Ratio	50 dB
Usable Sensitivity	Loop 400 µV/m
Distortion	400 Hz, 30 % Mod. 0.5 %
Selectivity	±18 kHz 60 dB

AUDIO SECTION

Continuous Power Output (8 ohms / 20 Hz - 20 kHz)	
Front	70W
Center	70W
Surround	70W
THD Front (20 Hz - 20 kHz)	8 ohms 0.09 %
Input Sensitivity/Impedance	
Linear	316 mV/ 47 Kohms
Signal to Noise Ratio	
Linear	99 dB

VIDEO

Input Level/Impedance	1 Vp-p/ 75 ohms
Output Level/Impedance	1 Vp-p/ 75 ohms

GENERAL

Power Requirement	AC 100 V 50/60 Hz (F)
	AC 220 V 50 Hz (K)
	AC 110 V 60 Hz (L)
	AC 230 V 50 Hz (N)
	AC 120 V 60 Hz (U)
Power Consumption	170W (F)
	280W (K, /N)
	320W (L)
	2.7A (U)
Dimension (MAX)	
Width	17-3/8 inches (440 mm)
Height	6-1/2 inches (164 mm)
Depth	14-3/8 inches (365 mm)
Weight	21.4 lbs (9.7 Kg)

ACCESSORIES

Remote Control Unit RC5200SR	1
AAA-size batteries	2
FM Lead Type Antenna (N, /K, /L)	1
FM Feader Antenna (U, /F)	1
FM Antenna Converter (U, /F)	1
AM Loop Antenna	1
Warranty Card (U, /F)	1
Registration Card (N)	1
User Guide	1
AC Power Cord (N)	1
Post Card (F)	1

Specifications subject to change without prior notice.

2. REMARK

The relation between the selected surround mode and the input signal

The surround modeis selected with the surround mode buttons of the SR4200 or the remote control unit. However, the sound from the speakers depend upon the relationship between the selected surround mode and the input signal. They are as follows;

SURROUND MODE	INPUT SIGNAL	OUTPUT				FLUORESCENT INDICATOR	
		L/R	LS/RS	C	SW	FORMAT STATUS & SURROUND MODE	TEMPORARY DISPLAY STATUS
AUTO	DOLBY DIGITAL(5.1CH)	O	O	O	O	DIGITAL, AUTO	>AUTO>
	DOLBY DIGITAL(2CH)	O	–	–	O	DIGITAL, AUTO	>AUTO>
	DOLBY DIGITAL(2CH:Lt/Rt)	O	O	O	O	DIGITAL, MOVIE, AUTO	>AUTO>
	96KHZ PCM	O	–	–	–	PCM, STERE, AUTO	>AUTO>
	PCM(AUDIO)	O	–	–	O	PCM, STERE, AUTO	>AUTO>
	ANALOG	O	–	–	O	STEREO, AUTO	>AUTO>
	DTS(5.1CH)	O	O	O	O	dts, AUTO	>AUTO>
STEREO	DOLBY DIGITAL(5.1CH)	O	–	–	O	DIGITAL,STEREO	>STEREO>
	DOLBY DIGITAL(2CH)	O	–	–	O	DIGITAL,STEREO	>STEREO>
	DOLBY DIGITAL(2CH:Lt/Rt)	O	–	–	O	DIGITAL,STEREO	>STEREO>
	96KHZ PCM	O	–	–	–	PCM,STEREO	>STEREO>
	PCM(AUDIO)	O	–	–	O	PCM,STEREO	>STEREO>
	ANALOG	O	–	–	O	STEREO	>STEREO>
	DTS(5.1CH)	O	–	–	O	dts, STEREO	>STEREO>
MOVIE	DOLBY DIGITAL(5.1CH)	O	O	O	O	DIGITAL	>DOLBY D>
	DOLBY DIGITAL(2CH)	O	O	O	O	DIGITAL, MOVIE	>DOLBY PLII>
	DOLBY DIGITAL(2CH:Lt/Rt)	O	O	O	O	DIGITAL, MOVIE	>DOLBY PLII>
	96KHZ PCM	–	–	–	–	(PCM), , MOVIE	>DOLBY PLII>
	PCM(AUDIO)	O	O	O	O	PCM, , MOVIE	>DOLBY PLII>
	ANALOG	O	O	O	O	, MOVIE	>DOLBY PLII>
	DTS(5.1CH)	–	–	–	–	(dts), , MOVIE	>DOLBY PLII>
MUSIC	DOLBY DIGITAL(5.1CH)	O	O	O	O	DIGITAL	>DOLBY D>
	DOLBY DIGITAL(2CH)	O	O	O	O	DIGITAL, MUSIC	>DOLBY PLII>
	DOLBY DIGITAL(2CH:Lt/Rt)	O	O	O	O	DIGITAL, MUSIC	>DOLBY PLII>
	96KHZ PCM	–	–	–	–	(PCM), , MUSIC	>DOLBY PLII>
	PCM(AUDIO)	O	O	O	O	PCM, , MUSIC	>DOLBY PLII>
	ANALOG	O	O	O	O	, MUSIC	>DOLBY PLII>
	DTS(5.1CH)	–	–	–	–	(dts), , MUSIC	>DOLBY PLII>
PROLOGIC	DOLBY DIGITAL(5.1CH)	O	O	O	O	DIGITAL	>DOLBY D>
	DOLBY DIGITAL(2CH)	O	O	O	O	DIGITAL, PROLOGIC	>DOLBY PL>
	DOLBY DIGITAL(2CH:Lt/Rt)	O	O	O	O	DIGITAL, PROLOGIC	>DOLBY PL>
	96KHZ PCM	–	–	–	–	(PCM), PROLOGIC	>DOLBY PL>
	PCM(AUDIO)	O	O	O	O	PCM, PROLOGIC	>DOLBY PL>
	ANALOG	O	O	O	O	PROLOGIC	>DOLBY PL>
	DTS(5.1CH)	–	–	–	–	(dts), PROLOGIC	>DOLBY PL>
DTS	DOLBY DIGITAL(5.1CH)	–	–	–	–	(), dts	>DTS>
	DOLBY DIGITAL(2CH)	–	–	–	–	(), dts	>DTS>
	DOLBY DIGITAL(2CH:Lt/Rt)	–	–	–	–	(), dts	>DTS>
	96KHZ PCM	–	–	–	–	(PCM), dts	>DTS>
	PCM(AUDIO)	–	–	–	–	(PCM), dts	>DTS>
	DTS(5.1CH)	O	O	O	O	dts	>DTS>
MOVIE HALL MATRIX GAME	DOLBY DIGITAL(5.1CH)	–	–	–	–	(), DSP, MOVIE/ HALL/ MATRIX/ GAME	>MOVIE/ HALL/ MATRIX/ GAME>
	DOLBY DIGITAL(2CH)	–	–	–	–	(), DSP, MOVIE/ HALL/ MATRIX/ GAME	>MOVIE/ HALL/ MATRIX/ GAME>
	DOLBY DIGITAL(2CH:Lt/Rt)	–	–	–	–	(), DSP, MOVIE/ HALL/ MATRIX/ GAME	>MOVIE/ HALL/ MATRIX/ GAME>
	96KHZ PCM	–	–	–	–	(PCM), DSP, MOVIE/ HALL/ MATRIX/ GAME	>MOVIE/ HALL/ MATRIX/ GAME>
	PCM(AUDIO)	O	O	O	O	PCM, DSP, MOVIE/ HALL/ MATRIX/ GAME	>MOVIE/ HALL/ MATRIX/ GAME>
	ANALOG	O	O	O	O	DSP, MOVIE/ HALL/ MATRIX/ GAME	>MOVIE/ HALL/ MATRIX/ GAME>
	DTS(5.1CH)	–	–	–	–	(dts),DSP,MOVIE/ HALL/ MATRIX/ GAME	>MOVIE/ HALL/ MATRIX/ GAME>
VIRTUAL	DOLBY DIGITAL(5.1CH)	–	–	–	–	(), DSP, VIRTUAL	>VIRTUAL>
	DOLBY DIGITAL(2CH)	–	–	–	–	(), DSP, VIRTUAL	>VIRTUAL>
	DOLBY DIGITAL(2CH:Lt/Rt)	–	–	–	–	(), DSP, VIRTUAL	>VIRTUAL>
	96KHZ PCM	–	–	–	–	(PCM), DSP, VIRTUAL	>VIRTUAL>
	PCM(AUDIO)	O	–	–	O	PCM, DSP, VIRTUAL	>VIRTUAL>
	ANALOG	O	–	–	O	DSP, VIRTUAL	>VIRTUAL>
	DTS(5.1CH)	–	–	–	–	(dts),DSP,VIRTUAL	>VIRTUAL>
5-STEREO	DOLBY DIGITAL(5.1CH)	O	O	O	O		>5-STEREO>
	DOLBY DIGITAL(2CH)	O	O	O	O		>5-STEREO>
	DOLBY DIGITAL(2CH:Lt/Rt)	O	O	O	O		>5-STEREO>
	96KHZ PCM	–	–	–	–	(PCM)	>5-STEREO>
	PCM(AUDIO)	O	O	O	O	PCM	>5-STEREO>
	ANALOG	O	O	O	O		>5-STEREO>
	DTS(5.1CH)	O	O	O	O	dts	>5-STEREO>

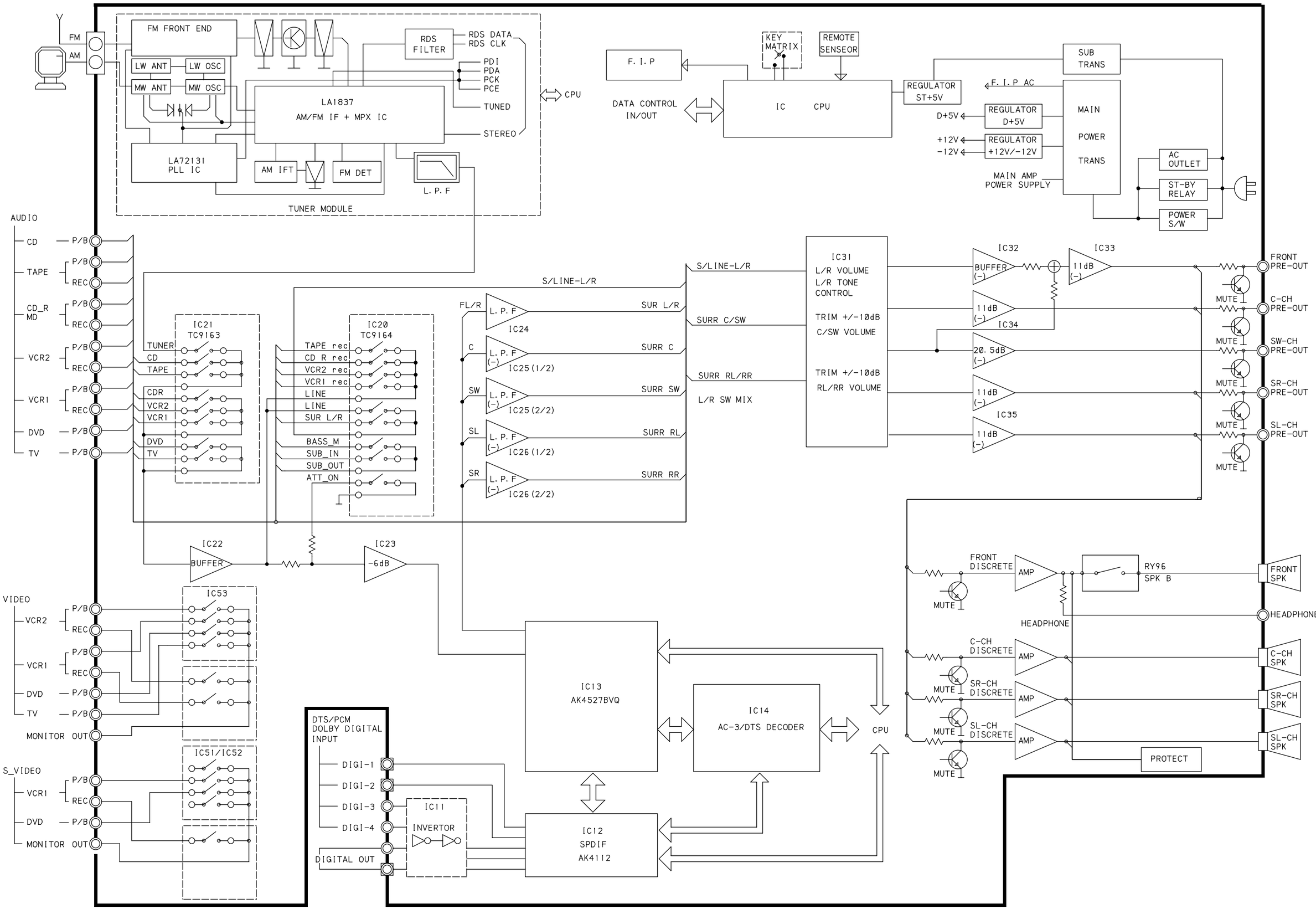
Note:

- Dolby Digital (2 ch: Lt/Rt): signalwith Dolby Surround flag Speakers are full set.
- When , dtsor PCM is blinking, theselected surround mode is unavailable for input signal. Select the other appropriate surround mode to playback.
- No sound outputs from thesurround speaker,center speaker and subwoofer if the DVD disc has nosurround data.

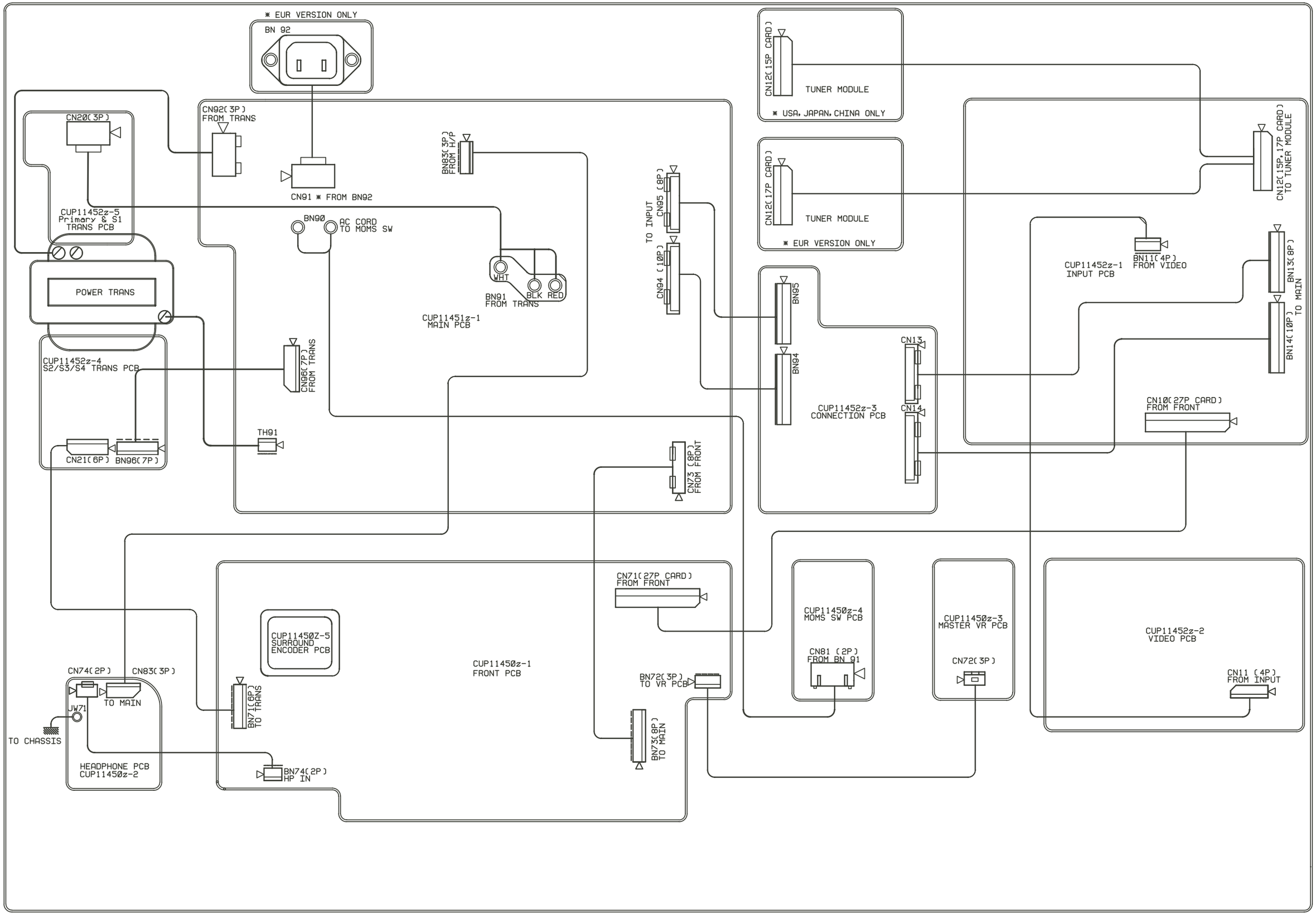
L/R : Front speaker
LS/RS : Surround speaker
C : Center speaker
SW : Sub woofer speaker

( ): The indicator blinks

3. BLOCK DIAGRAM

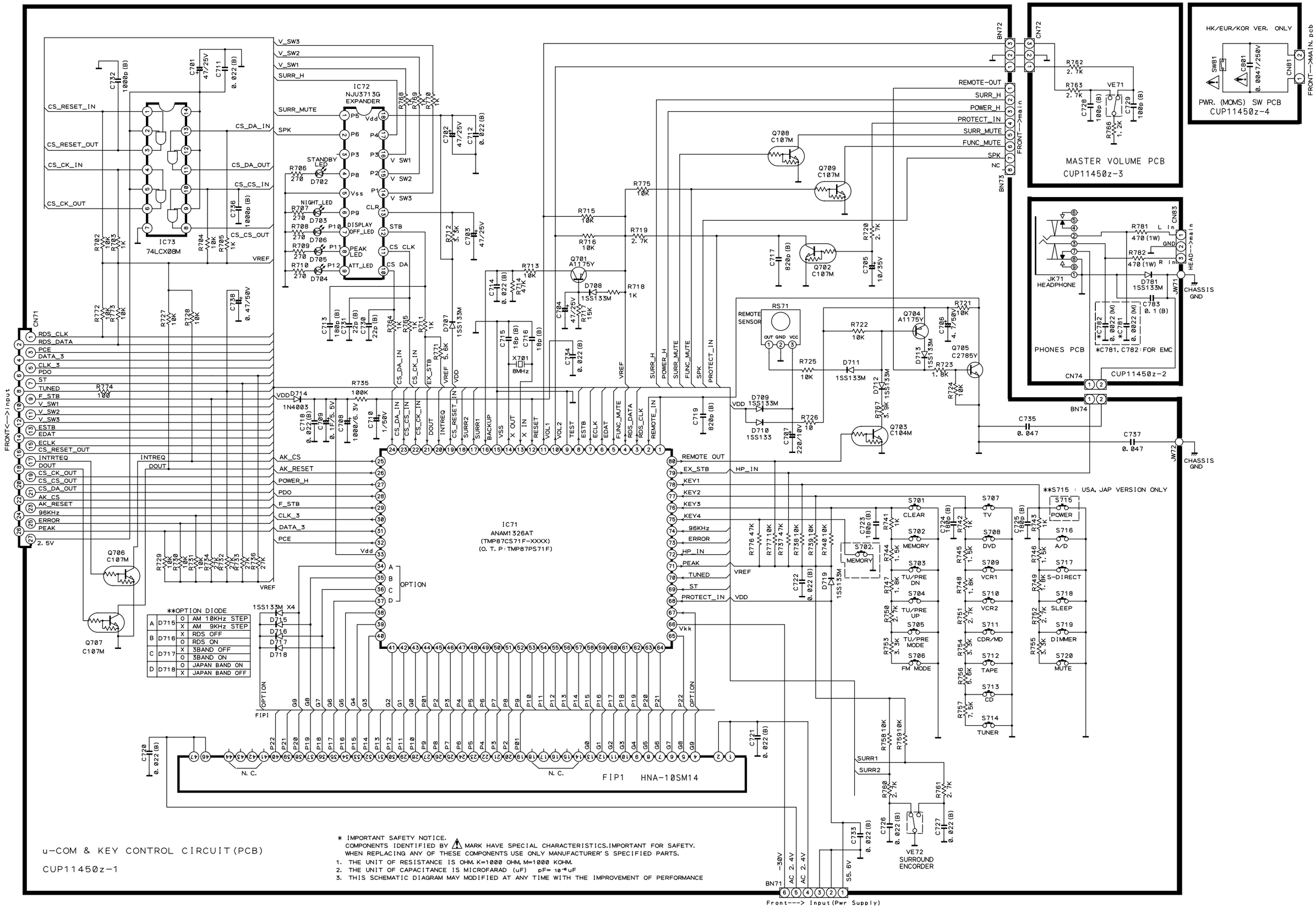


4. WIRIMG DIAGRAM

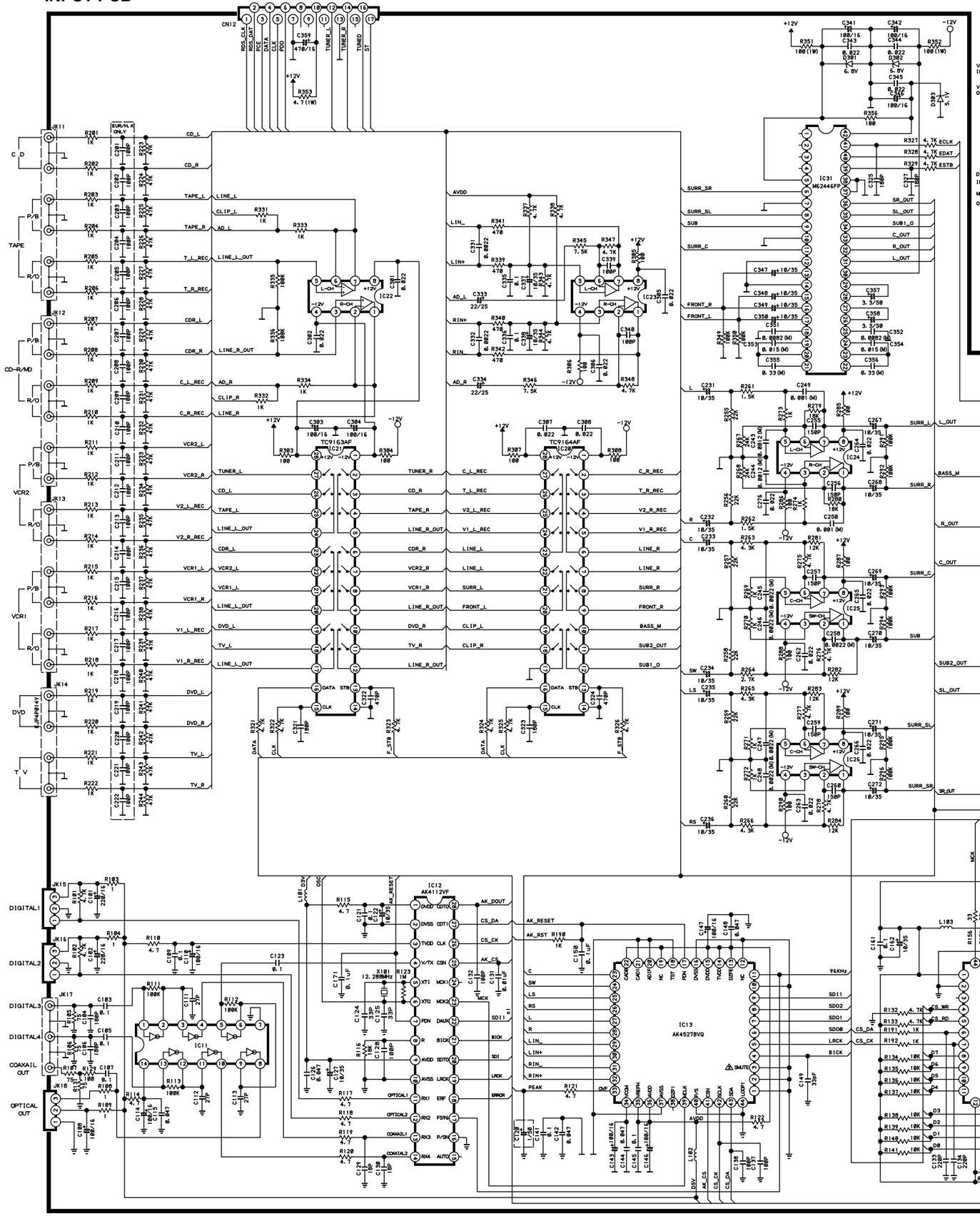


5. SCHEMATIC DIAGRAM AND PARTS LOCATIONS (Parts Side)

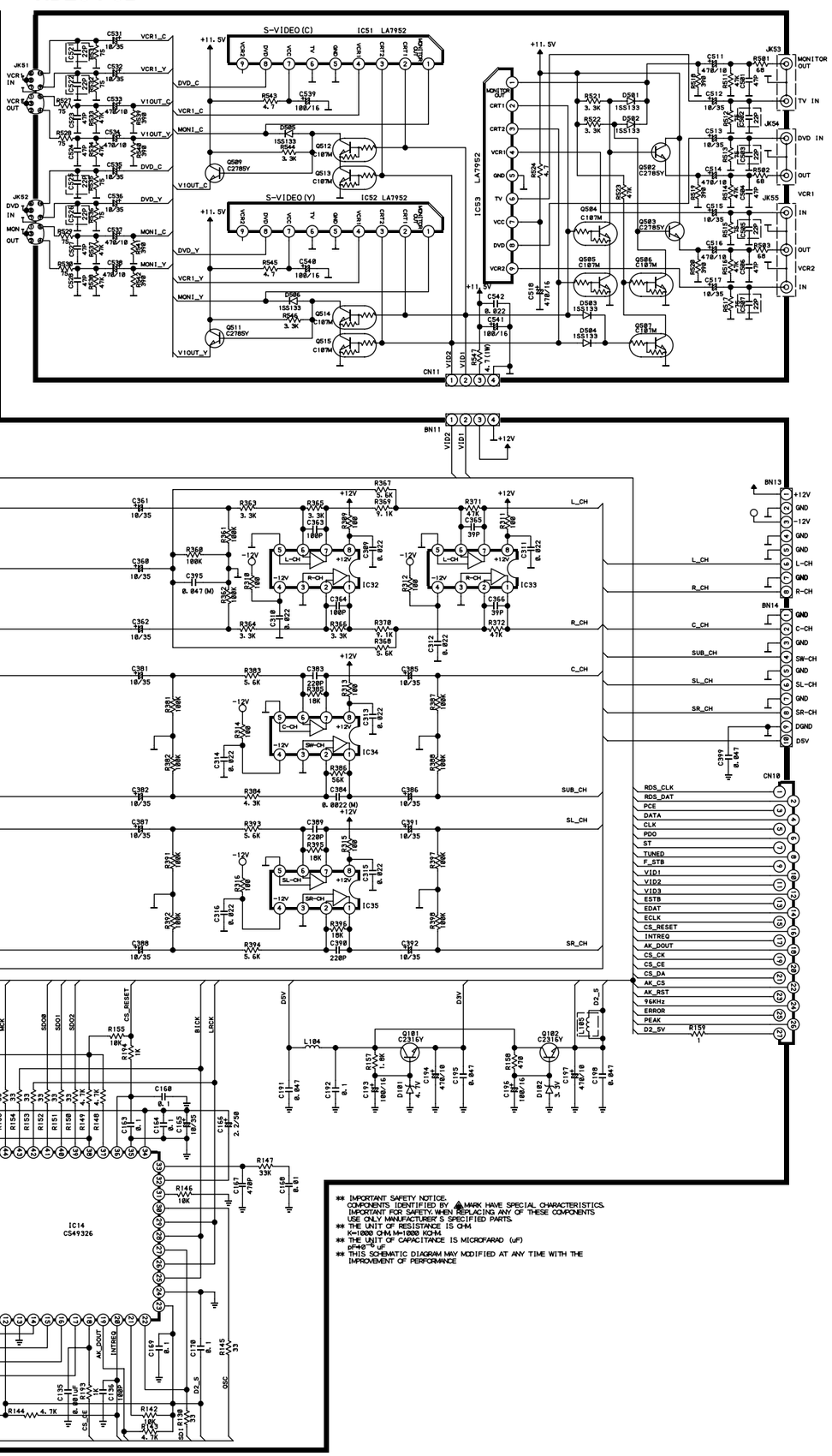
FRONT PCB



INPUT PCB

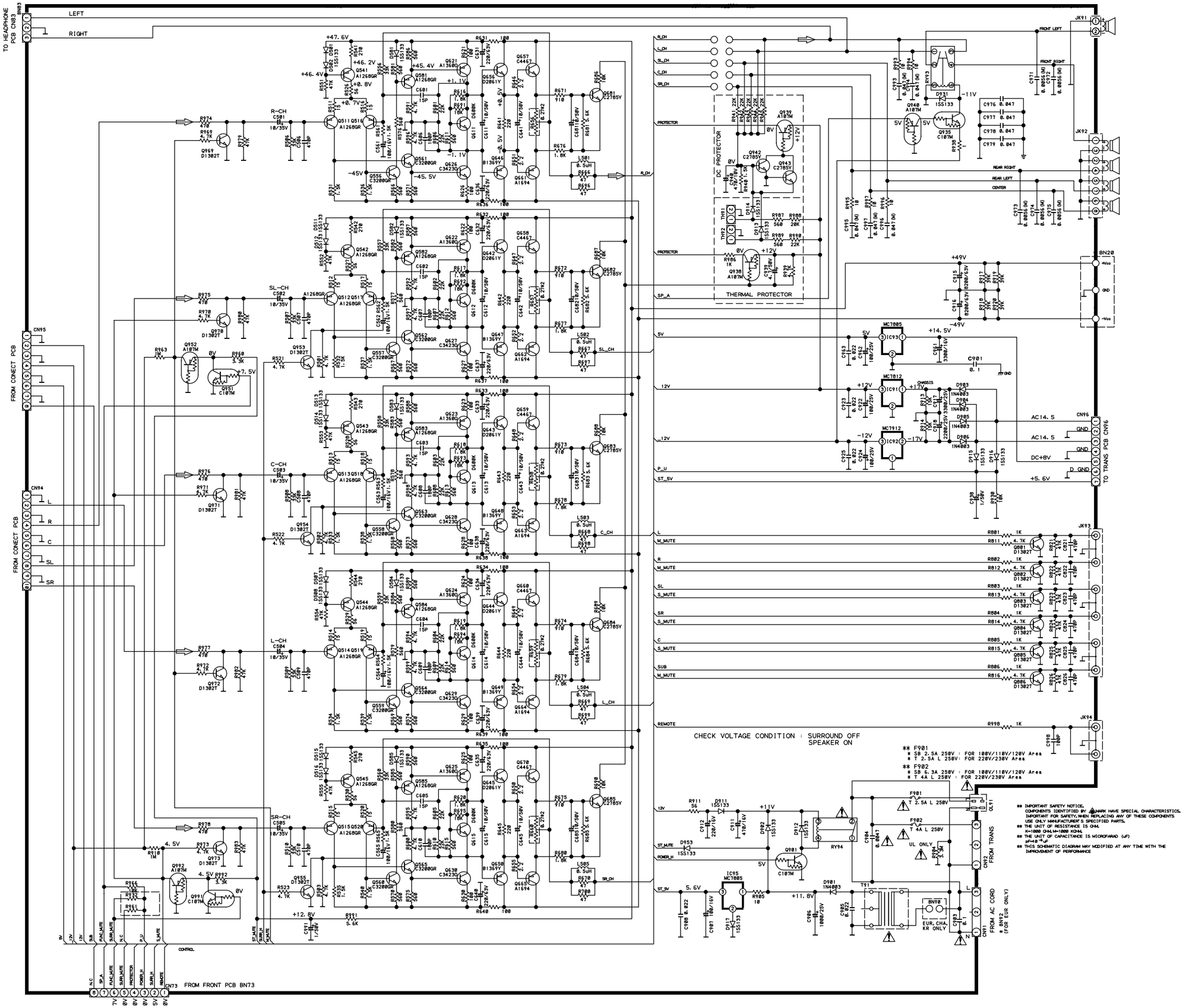


VIDEO PCB



** IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY ⚠ MARK HAVE SPECIAL CHARACTERISTICS.
IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY MANUFACTURER'S SPECIFIED PARTS.
** THE UNIT OF RESISTANCE IS OHM
K=1000 OHM, M=1000 KOHM
** THE UNIT OF CAPACITANCE IS MICROFARAD (uF)
P=10^-6 uF
** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE
IMPROVEMENT OF PERFORMANCE

MAIN PCB


TO HEADPHONE PCB CN83
LEFT
RIGHT
FROM CONECT PCB
CN95
CN94
L
R
C
SL
SR
FROM FRONT PCB BN73
R-CH
SL-CH
C-CH
L-CH
SR-CH
THERMAL PROTECTOR
DC PROTECTOR
CHECK VOLTAGE CONDITION : SURROUND OFF SPEAKER ON
** F901
* SB 2.5A 250V : FOR 100V/110V/120V Area
* T 2.5A L 250V: FOR 220V/230V Area
** F902
* SB 6.3A 250V : FOR 100V/110V/120V Area
* T 4A L 250V : FOR 220V/230V Area
** IMPORTANT SAFETY NOTICE.
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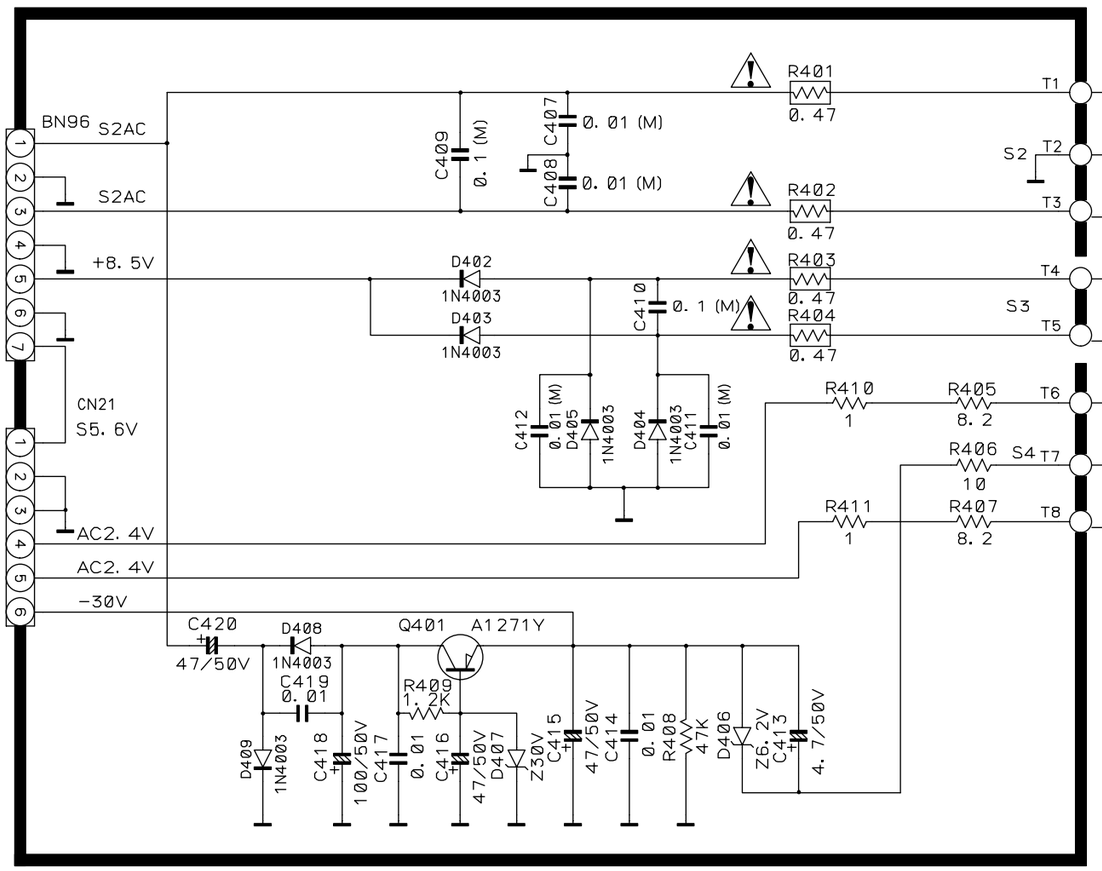
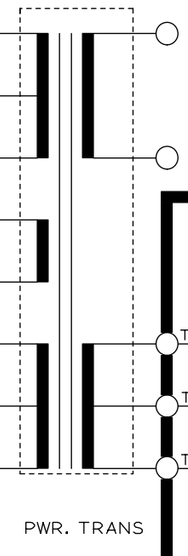
K=1000 OHM,M=1000 KOHM.
** THE UNIT OF CAPACITANCE IS MICROFARAD (uF)
pF=10^-6uF.
** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE IMPROVEMENT OF PERFORMANCE
FROM AC CORD (FOR EUR ONLY)
FROM TRANS
TO TRANS PCB CN96
FRONT LEFT
FRONT RIGHT
REAR RIGHT
REAR LEFT
CENTER
JK91
JK92
JK93
JK94
BN20
CN96
CN92
CN91
BN98
EUR, CHA, KR ONLY
UL ONLY
CONTROL

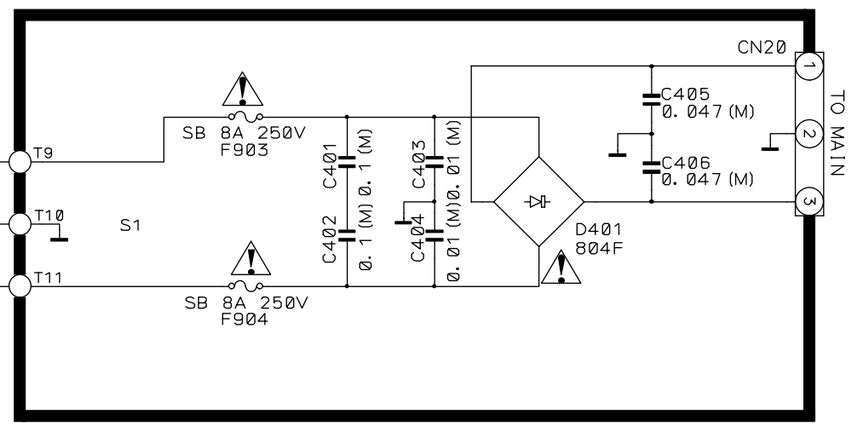
POWER-2 PCB

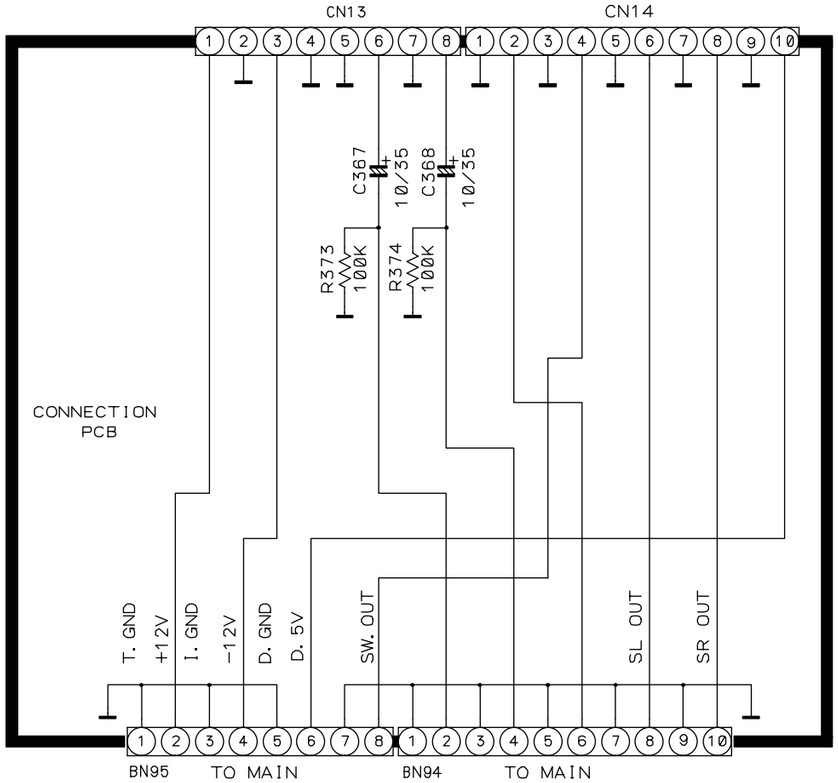




TRANS AC IN
(PRIMARY)
EUR, HK, CHI : 230V/50Hz
KOR : 220V/60Hz
USA : 120V/60Hz
JPN : 100V/50, 60Hz
TAIWAN : 110V/60Hz

POWER-1 PCB

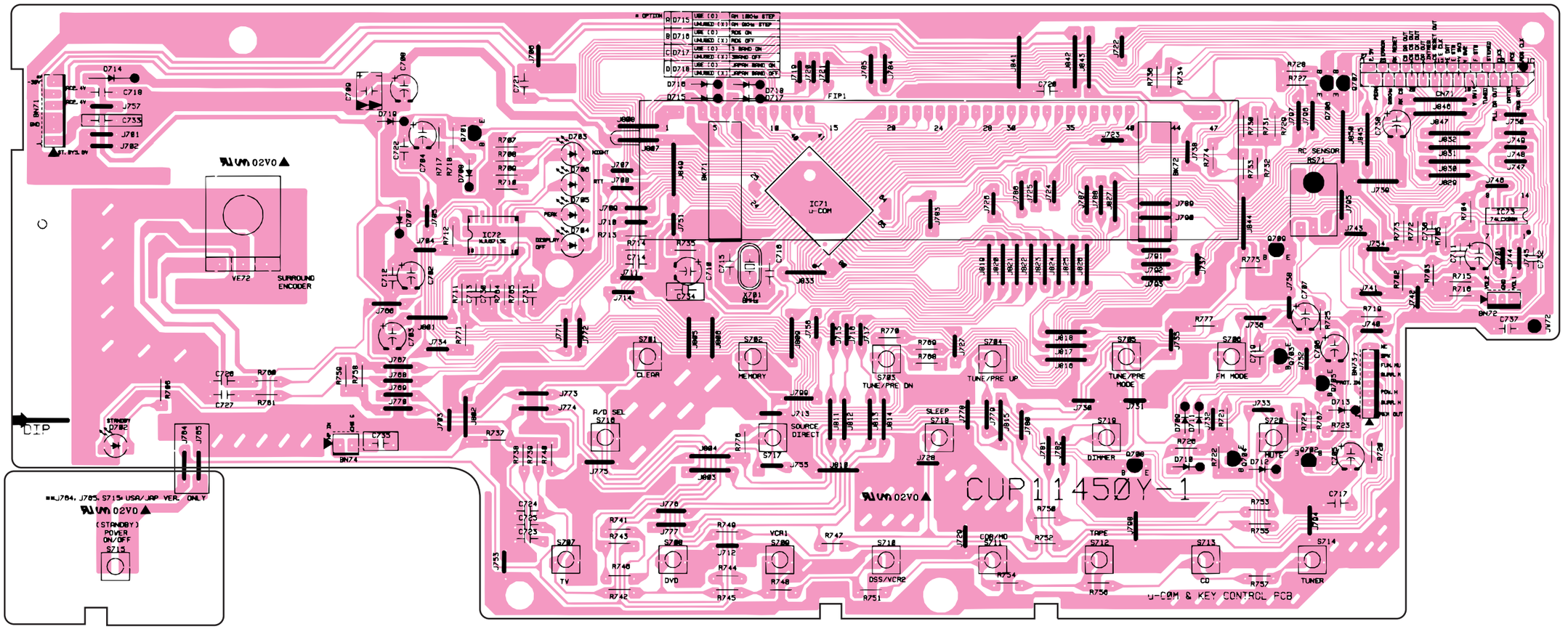




CONNECTION PCB

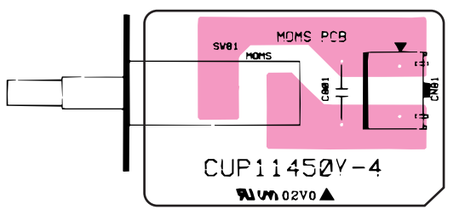
FRONT PCB

Q701 IC72 IC71 Q708 Q704 Q709 Q705 Q707 Q703 Q702 Q706

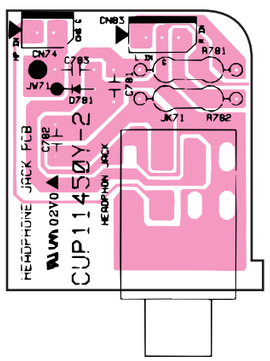


POWER PCB (F, /U)

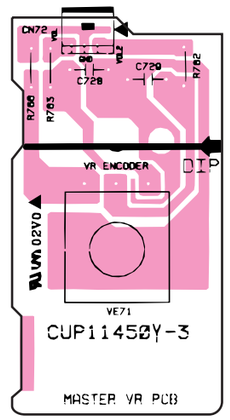
MOMS PCB (K, /L, /N)



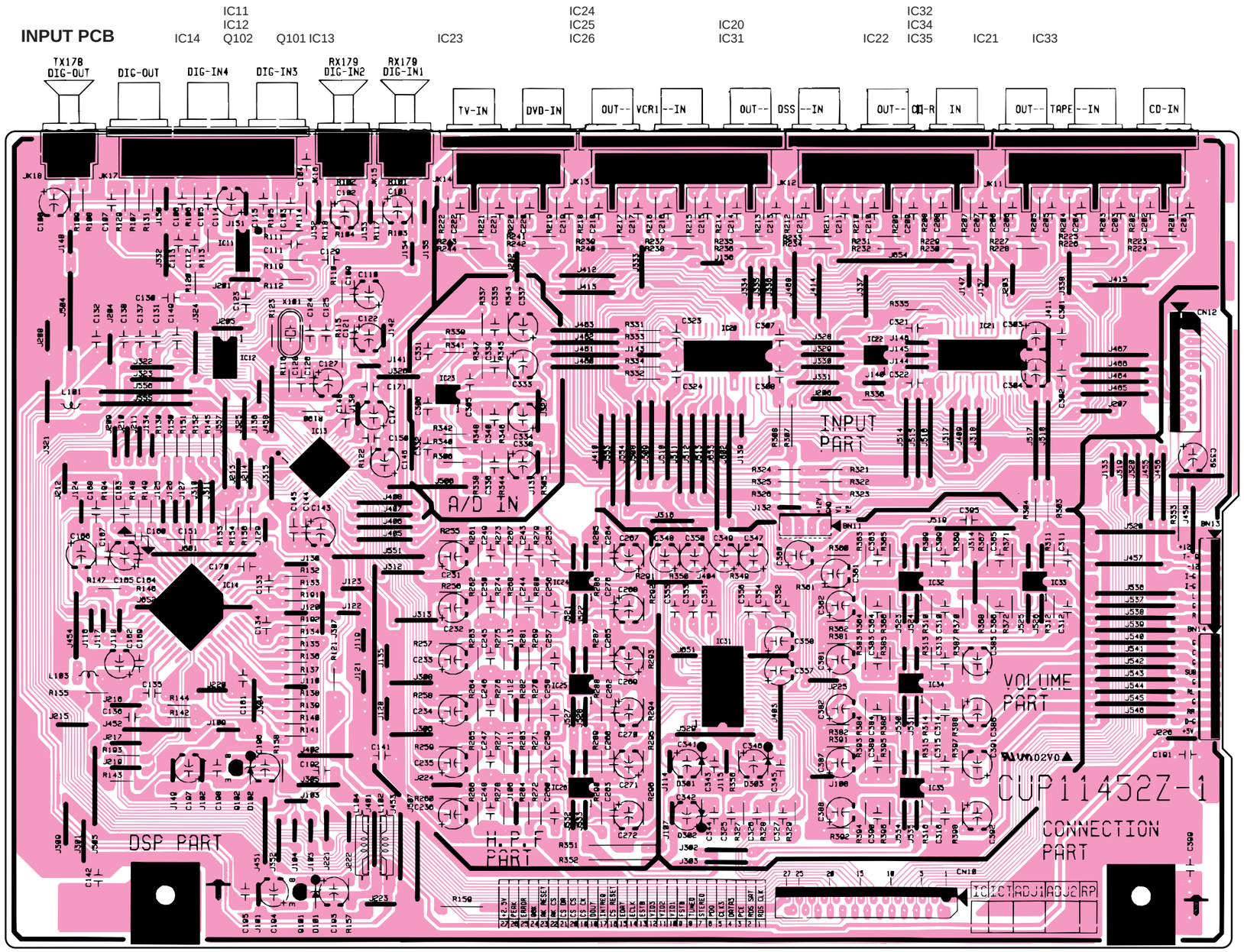
HEADPHONE JACK PCB



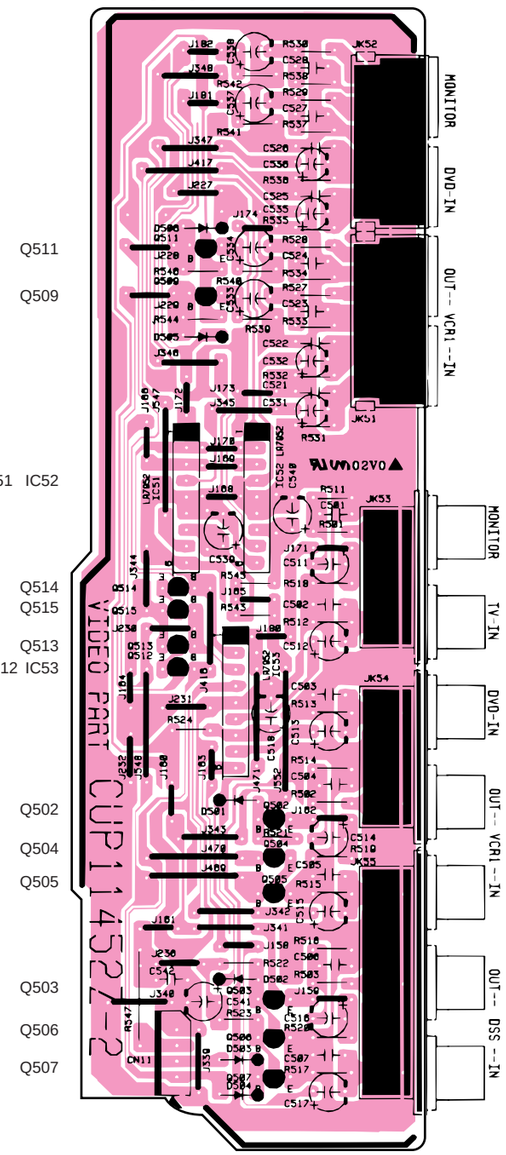
MASTER VR PCB



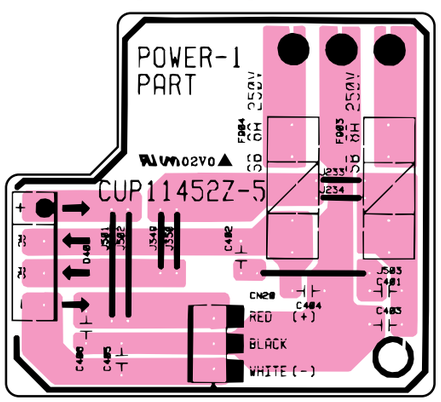
INPUT PCB



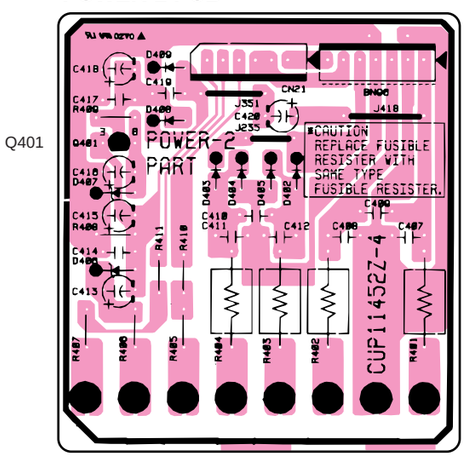
VIDEO PCB



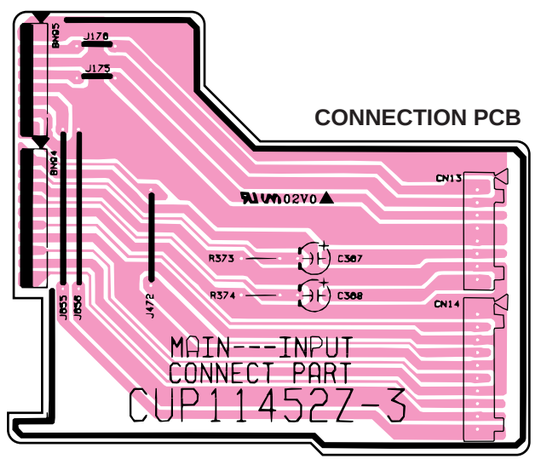
POWER-1 PCB



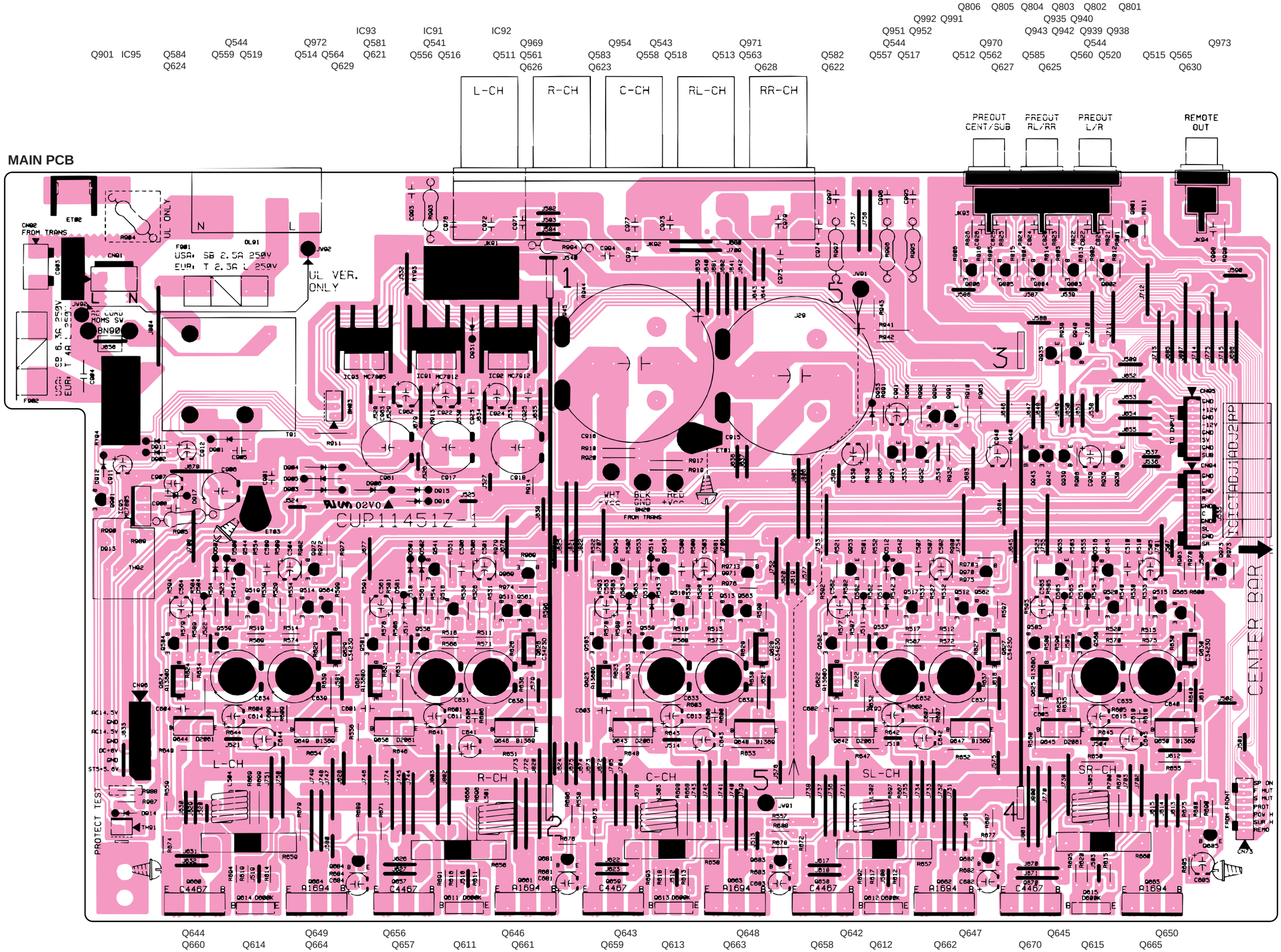
POWER-2 PCB



CONNECTION PCB



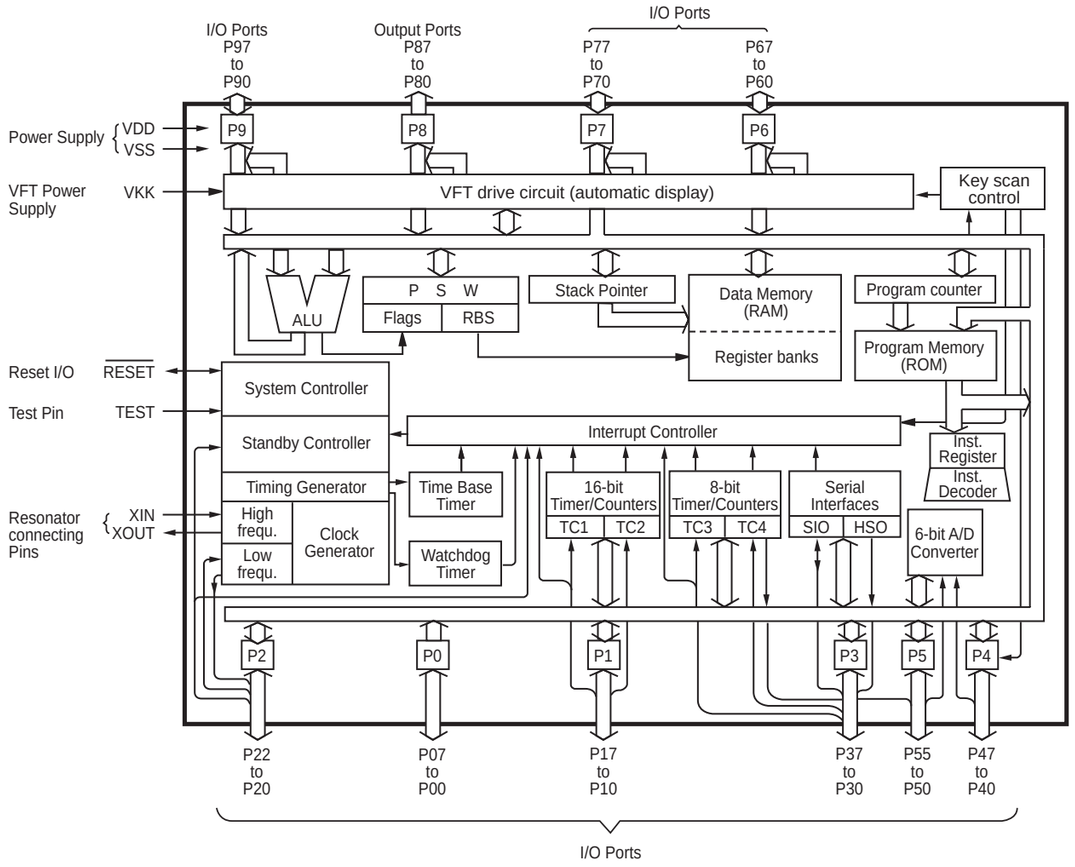
MAIN PCB


Q806 Q805 Q804 Q803 Q802 Q801
Q992 Q991 Q935 Q940
Q951 Q952 Q943 Q942 Q939 Q938
Q901 IC95 Q584 Q544 Q559 Q519 Q972 Q514 Q564 Q629 IC93 Q581 Q621 IC91 Q541 Q556 Q516 IC92 Q969 Q511 Q561 Q626 Q954 Q543 Q583 Q558 Q518 Q623 Q971 Q513 Q563 Q628 Q582 Q622 Q544 Q557 Q517 Q970 Q512 Q562 Q627 Q585 Q544 Q560 Q520 Q625 Q973 Q515 Q565 Q630
Q624
L-CH
R-CH
C-CH
RL-CH
RR-CH
PREOUT CENT/SUB
PREOUT RL/RR
PREOUT L/R
REMOTE OUT
CUP11451Z-1
TO INPUT
CENTER BOARD
FROM FRONT
PROTECT TEST
Q644 Q660
Q614
Q649 Q664
Q656 Q657
Q611
Q646 Q661
Q643 Q659
Q613
Q648 Q663
Q642 Q658
Q612
Q647 Q662
Q645 Q670
Q615
Q650 Q665

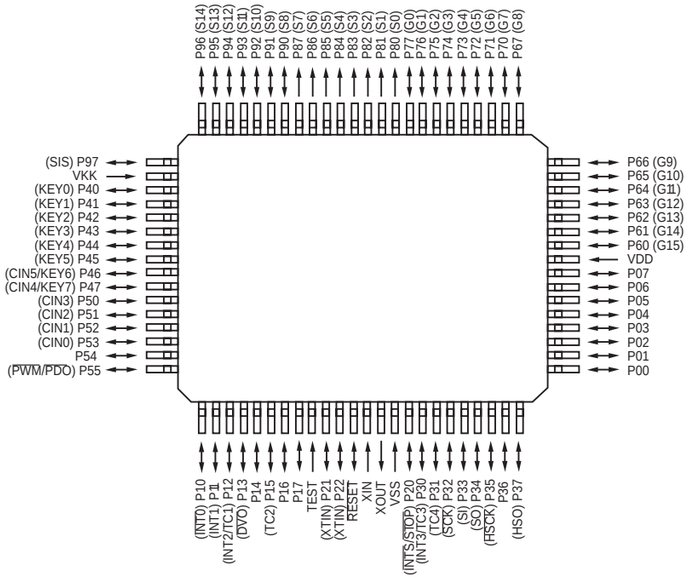
6. MICROPROCESSOR AND IC DATA

IC71 : ANAM1328AT

BLOCK DIAGRAM



PIN CONFIGURATION

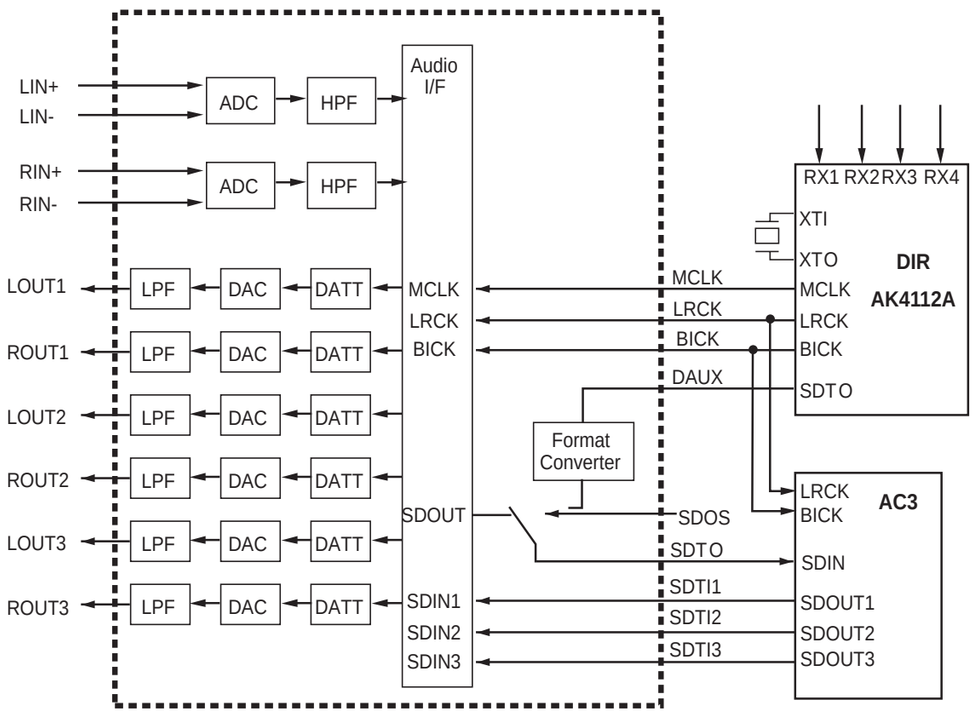


PIN FUNCTIONS

PIN No.	SYMBOL	I/O	DESCRIPTION
1,2	REMOTE IN	I	Remote Control Sensor Data Input
3	RDS CLK	I/O	RDS IC (on the Tuner Module) CLK/Data Port
4	RDS DATA	I/O	
5	Function Mute	O	Function Mute Control Output Port(Active "H")
6	E. VOL. Data	O	Electronic Vol.IC (M62446FP) Data/CLK/STB Port
7	E. VOL. CLK	O	
8	E. VOL. CE(STB)	O	
9	Vpp(Test)	-	Program Supply Voltage (GND Connection)
10	Volume Up(Encoder)	I	Master Volume Up/Down Control Port
11	Volume Down(Encoder)	I	
12	RESET	I	Reset Input Port("L")
13	XIN	I	8MHz Cystal Connection Port
14	X OUT	O	
15	Vss(GND)	I	Divice GND Port
16	Back Up	I	Back Up Mode Control Port ("L")
17	SURROUND SW	I	Surround mode (ENCODER) Control Port
18	SURROUND SW	I	
19	CS RESET IN	O	Reset (Initial Clear) Control Port for CS493263
20	INTREQ	I	Interrupt Requst Input Port for CS493263
21	D OUT	I	Data Input Port for CS493263/AK4112VF
22	CS CLK IN	O	CLK Output Port for NJU3713G/CS493263/AK4527BVQ
23	CS CS IN	O	Chip Selector Port for CS493263
24	CS DA IN	O	Data Output Port for NJU3713G/CS493263/AK4527BVQ
25	AK CS	O	Chip Selector Port for AK4527BVQ
26	AK RESET	O	Reset Port for AK4527BVQ/AK4112VF
27	POWER " H "	O	Power Relay On/Off Control Port(Active"H")
28	PDO	I	PLL IC(LC72131)Data Input Port
29	FUNC.STB	O	Function IC(TC9163/64) Strobe Control Port
30	CLK3	O	Function/PLL IC CLK Control Port
31	DATA3	O	Function/PLL IC Data Control Port
32	PCE	O	PLL IC(LC72131:on the Tuner Module) Chip Enable Control Port
33	VDD/VCC	-	Power Supply Port (+5V)
34~37	Option	O	Option Control Output Port
34~43	FIP Grid	O	FIP Grid Control Port
44~65	FIP Segment	O	FIP Segment Control Port
66	Vkk	-	FIP Power Supply Port (-30V)
67	Option	I	Option Control Input Port
68	Protect IN	I	Protect Input Port(Active " L ")
69	Stereo IN	I	Stereo Display Control Port
70	Tuned IN	I	Tuned Display Control Port
71	PEAK	O	Peak Level Control Input Port
72	HP IN	I	Headphon Detective Input Port(Active " H ")
73	ERROR	I	Error Detection Input Port
74	96KHz	I	96KHz Detection Input Port
75~78	KEY Matrix	I	Key Control Input Port
79	EX STB	O	Expended IC(NJU3713G) Strobe Control Port
80	Bus Out	O	Remote Control Data Output Port

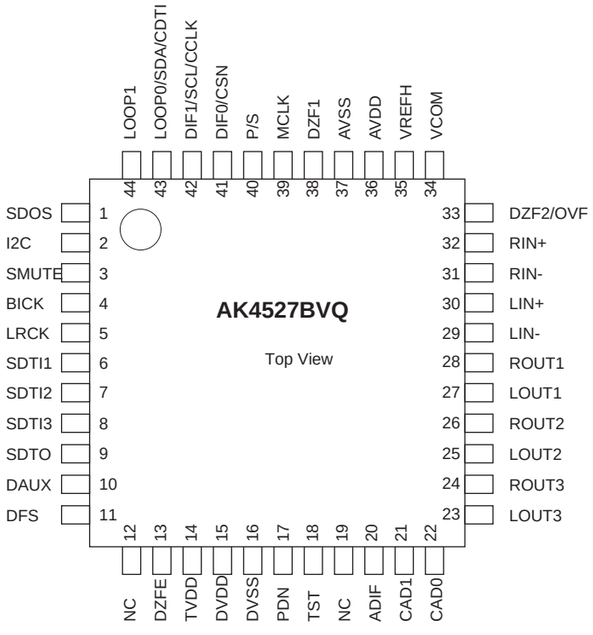
IC13 : AK4527BVQ

BLOCK DIAGRAM



[Serial Control Mode]

PIN CONFIGURATION



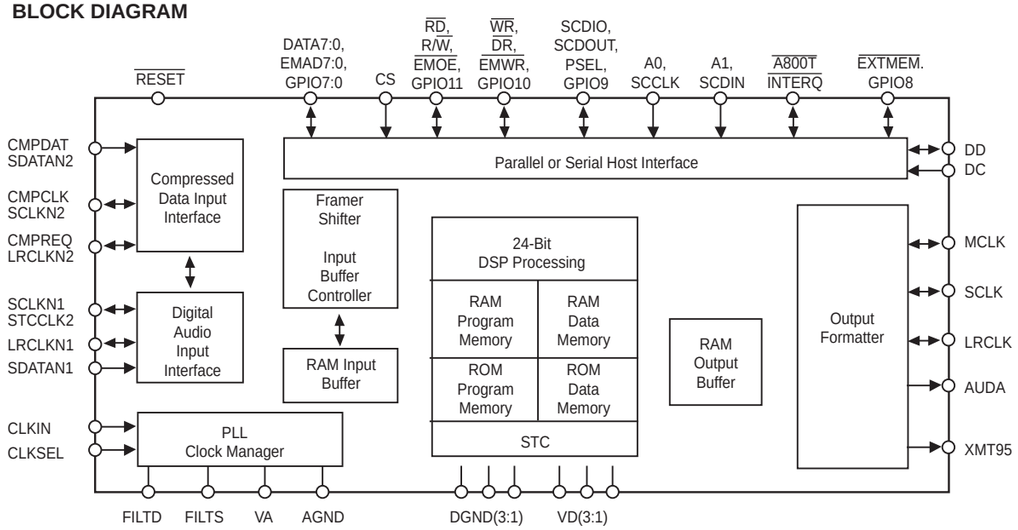
PIN FUNCTIONS

PIN No.	Pin Name	I/O	Function
1	SDOS	I	SDTO Source Select Pin (Note 1) L : Internal ADC output, H : DAUX input
2	12C	I	Control Mode Select Pin L : 3-wire Serial, H : I ^{2}C Bus
3	SMUTE	I	Soft Mute Pin (Note 1) When this pin goes to H , soft mute cycle is initialized. When returning to L , the output mute releases.
4	BICK	I	Audio Serial Data Clock Pin
5	LRCK	I	Input Channel Clock Pin
6	SDTI1	I	DAC1 Audio Serial Data Input Pin
7	SDTI2	I	DAC2 Audio Serial Data Input Pin
8	SDTI3	I	DAC3 Audio Serial Data Input Pin
9	SDTO	O	Audio Serial Data Output Pin
10	DAUX	I	AUX Audio Serial Data Input Pin
11	DFS	I	Double Speed Sampling Mode Pin (Note 1) L : Normal Speed, H : Double Speed
12	NC	-	No Connect No internal bonding.
13	DZFE	I	Zero Input Detect Enable Pin L : mode 7(disable) at parallel mode, zero detect mode is selectable by DZFM2-0 bits at aerial mode H : mode 0(DZF1 is AND of all six channels)
14	TVDD	-	Output Buffer Power Supply Pin, 2.7V~5.5V
15	DVDD	-	Digital Power Supply Pin, 4.5V~5.5V
16	DVSS	-	Digital ground Pin, 0V
17	PDN	I	Power-Down & Reset Pin When L ,the AK4527B is powered-down and the control registers are reset to default state. If the state of P/S or CAD0-1 changes, then the AK4527B must be reset by PDN.
18	TST	I	Test Pin This Pin should be connected to DVSS.
19	NC	-	No Connect No internal bonding.
20	ADIF	I	Analog Input Format Select Pin H : Full-differential input, L : Single-ended input
21	CAD1	I	Chip Address 1 Pin
22	DAD0	I	Chip Address 0 Pin
23	LOUT3	O	DAC3 Lch Analog Output Pin
24	ROUT3	O	DAC3 Rch Analog Output Pin
25	LOUT2	O	DAC2 Lch Analog Output Pin
26	ROUT2	O	DAC2 Rch Analog Output Pin
27	LOUT1	O	DAC1 Lch Analog Output Pin
28	ROUT1	O	DAC1 Rch Analog Output Pin
29	LIN-		I Lch Analog Negative Input Pin
30	LIN+	I	Lch Analog Positive Input Pin
31	RIN-	I	Rch Analog Negative Input Pin
32	PIN+	I	Rch Analog Posivive Input Pin
33	DZF2	O	Zero Input Detect 2 Pin (Note2) When the input data of the group 1 folloW total 8192 LRCK cycles with 0 input data, this pin goes to H .
	OVF	O	Analog Input Overflow Detect Pin (Note 3) This pin goes to H if the analog input of Lch or Rch is overflows.
34	VCOM	O	Common Voltage Output Pin, AVDD/2 Large external capacitor around 2.2 F is used to reduce power-supply noise.
35	VREFH	I	Positive Voltage Reference Input Pin, AVDD
36	AVDD	-	Analog Power Supply Pin, 4.5V~5.5V
37	AVSS	-	Analog Ground Pin, 0V
38	DZF1	O	Zero Input Detect 1 Pin (Note 2) When the input data of the group 1 follow total 8192 LRCK cycles with 0 input data, this pin goes to H
39	MCLK	I	Master Clock Input Pin
40	P/S	I	Parallel/serial Select Pin L : Serial control mode, H : Parallel control mode
41	DIF0	I	Audio Data Interface Format 0 Pin in parallel control mode
	CSN	I	Chip Select Pin in 3-wire serial control mode This Pin should be connected to DVDD at I^{2}C bus control mode
42	DIF1	I	Audio Data Interface Format 1 Pin in parallel control mode
	SCL/CCLK	I	Control Data Clock Pin in serial control mode 12C = L : CCLK (3-wire Serial), 12C = H : SDA (I ^{2}C Bus)
43	LOOP0	I	Loopback Mode 0 Pin in parallel control mode Enables digital loop-back from ADC to 3 DACs.
	SDA/CDTI	I/O	Control Data Input Pin in serial control mode 12C= L : CDT1 (3-wire Serial), 12C = H : SDA (I ^{2}C Bus)
44	LooP1	I	Loopback Mode 1 Pin (Note 1) Enables all 3 DAC channels to be input from SDTI1.

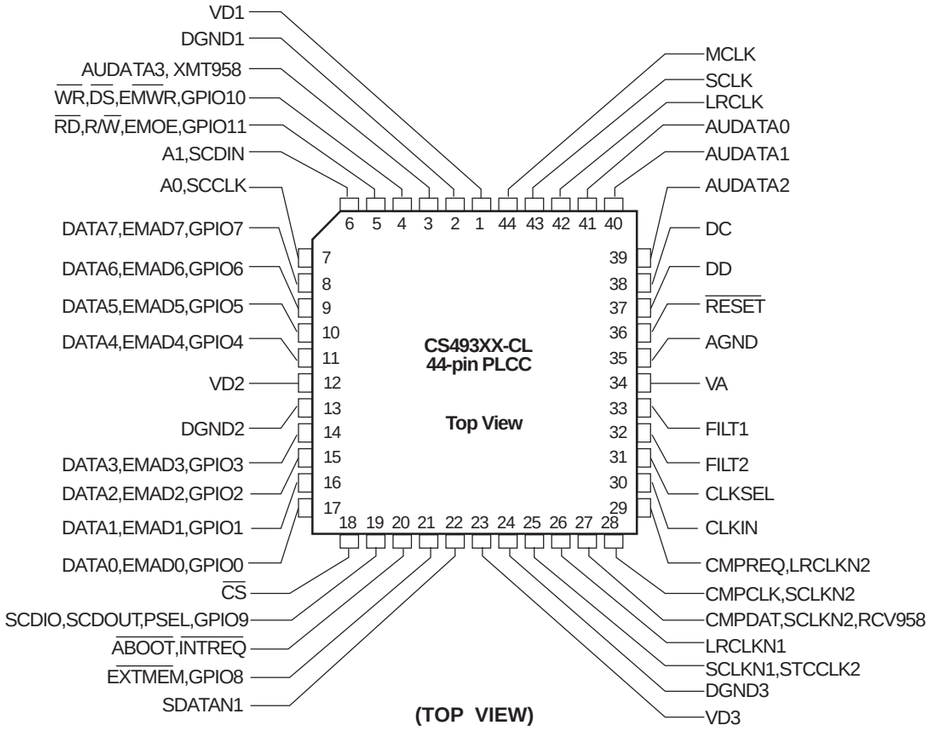
Notes: 1. SDOS, SMUET, DFS, and LOOP pins are ORed with register data if P/S = L
2. The group 1 and 2 can be selected by DZFM2-0 bits fi P/S= L and DZFE= L .
3. This pin becomes OVF pin if OVFE bit is set to 1 at serial control mode.
4. All input pins should not be left floating.

IC14 : CS493263

BLOCK DIAGRAM



PIN CONFIGURATION



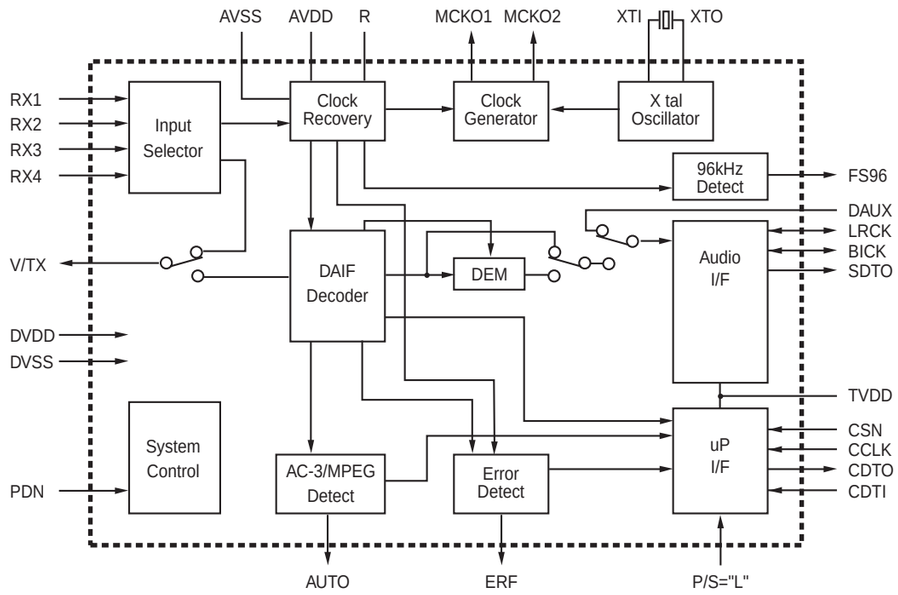
(TOP VIEW)

PIN FUNCTIONS

PIN No.	Name	I/O	FUNCTION
1,12,23	VD1/2/3	-	Digtal positive supplies. Nominally + 2.5V
2,13,24	DGND1/2/3	-	Digtal ground
3	AUDATA 3/XMT958	O	SPDIF transmitter output/Digital audio output (unused)
4	$\overline{WR}$	I	Host write strobe pin
5	$\overline{RD}$	I	Host parallel output enable pin
6	SCDIN	I	SPI Serial data input pin
7	SCCLK	I	Serial control clock input pin
8	DATA 7	I/O	Serial data in/output pins
9	DATA 6	I/O	
10	DATA 5	I/O	
11	DATA 4	I/O	
14	DATA 3	I/O	
15	DATA 2	I/O	
16	DATA 1	I/O	
17	DATA 0	I/O	
18	$\overline{CS}$	I	Host parallel chip select pin
19	SCDOUT	O	Serial control port data output pin
20	$\overline{INTREQ}$	O	Control port interrupt request output pin
21	GPIO 8	I/O	General purpose in/output number 8 pin
22	SDATAN1	I	PCM audio data input number 1 pin
25	SCLKN1	I	PCM audio input bit clock pin
26	LRCLKN1	I	PCM audio input sample rate clock pin
27	SDATAN1	I	PCM audio data input number 2 pin
28	SCLKN2	I	PCM audio input bit clock pin
29	LRCLKN2	I	PCM audio input sample rate clock pin
30	CLKIN	I	Master clock input(used external clock)
31	CLKSEL	I	DSP clock mode select pin: connect the GND
32	FILT1		Connects to an external filter for the on-chip phase-locked loop
33	FILT1		Connects to an external filter for the on-chip phase-locked loop
34	VA	-	Analog positive supply for clock generator. Nominally + 2.5V
35	AGND	-	Analog ground supply for clock generator PLL.
36	$\overline{RESET}$	I	Master reset input pin
37	DD	-	Reserved pin and should be pulled up with an external resister.
38	DC	-	Reserved pin and should be pulled up with an external resister.
39	AUDATA 2	O	PCM multi-format digital-audio data output2 pin
40	AUDATA 1	O	PCM multi-format digital-audio data output1 pin
41	AUDATA 0	O	PCM multi-format digital-audio data output0 pin
42	LRCLK	I	Audio output sample rate clock pin
43	SCLK	I	Audio output bit clock pin
44	MCLK	I	Audio master clock output pin

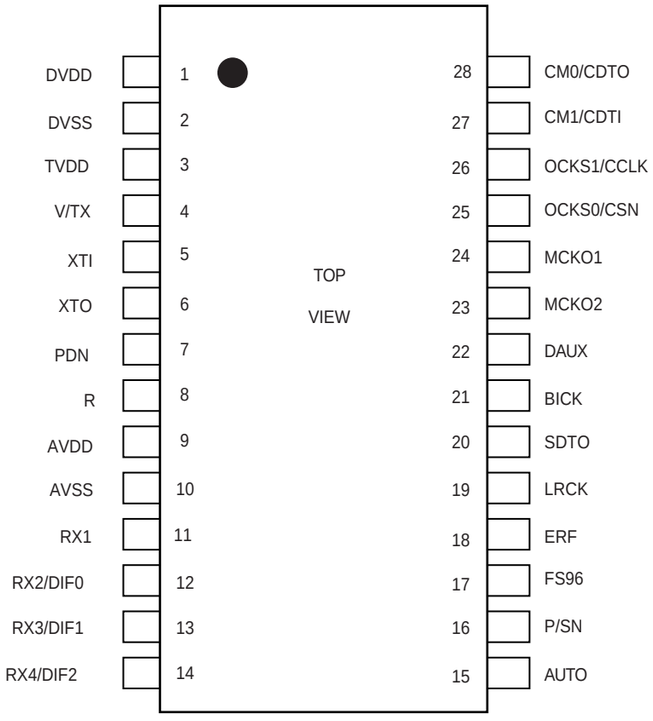
IC12 : AK4112AVF

BLOCK DIAGRAM



[Serial Control Mode]

PIN CONFIGURATION



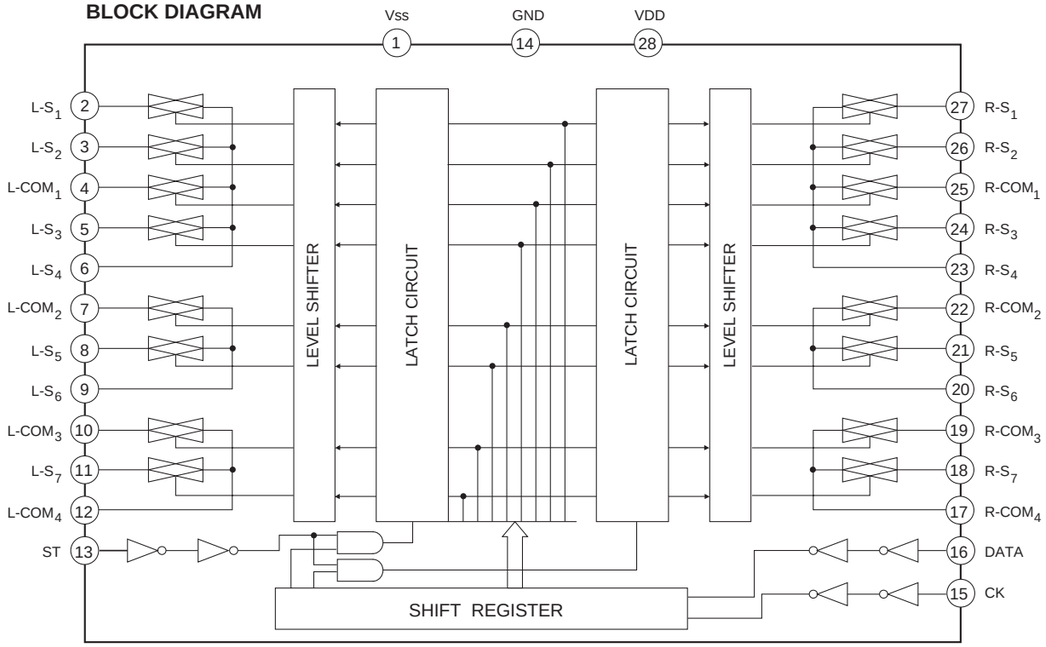
PIN FUNCTIONS

PIN No.	Pin Name	I/O	Function
1	DVDD	-	Digital Power Supply Pin, 3.3V
2	DVSS	-	Digital Ground Pin
3	TVDD	-	Input Buffer Power Supply Pin, 3.3V or 5V
4	V	O	Validity Flag Output Pin in Parallel Mode
	TX	O	Transmit channel (through data) Output Pin in Serial Mode
5	XTI	I	X tal Input Pin
6	XTO	O	X tal Output Pin
7	PDN	I	Power-Down Mode Pin When L , the Ak4112A is powered-down and reset.
8	R	-	External Resistor Pin 18k +/-1% resistor and 100pF or less capacitor to AVSS externally.
9	AVDD	-	Analog Power Supply Pin
10	AVSS	-	Analog Ground Pin
11	RX1	I	Receiver Channel 1 This channel is selected in Parallel Mode or default of Serial Mode.
12	DIF0	I	Audio Data Interface Format 0 Pin in Parallel Mode
	RX2	I	Receiver Channel 2 in Serial Mode
13	DIF1	I	Audio Data Interface Format 1 Pin in Parallel Mode
	RX3	I	Receiver Channel 3 in Serial Mode
14	DIF2	I	Audio Data Interface Format 2 Pin in Parallel Mode
	RX4	I	Receiver Channel 4 in Serial Mode
15	AUTO	O	Non-PCM Detect Pin L : No detect, H : Detect
16	P/S	I	Parallel/Serial Select Pin L : Serial Mode, H : Parallel Mode
17	FS96	O	96kHz Sampling Detect Pin (RX Mode) H :fs=88.2kHz or more, L fs=54kHz or less. (X tal Mode) H : XFS96-1, L : SF96=0.
18	ERF	O	Unlock & Parity Error output Pin L : NO Error, H : Error
19	LRCK	I/O	Output Channel Clock Pin
20	SDTO	O	Audio Serial Data Output Pin
21	BICK	I/O	Audio Serial Data Clock Pin
22	DAUX	I	Auxiliary Audio Data Input Pin
23	MCK02	O	Master Clock #2 Output Pin
24	MCK01	O	Master Clock #1 Output Pin
25	OCKS0	I	Output Clock Select 0 Pin in Parallel Mode
	CSN	I	Chip Select Pin in Serial Mode
26	OCKS1	I	Output Clock Select 1 Pin in Parallel Mode
	CCLK	I	Control Data Clock Pin in Serial Mode
27	CM1	I	Master Clock Operation Mode Pin0 in Parallel Mode
	CDTI	I	Control Data Input Pin in Serial Mode
28	CM0	I	Master Clock Operation Mode Pin1 in Parallel Mode
	CDTO	O	Control Data Output Pin in serial Mode

Note 1: All input pins except internal pull-down pins should not be left floating.

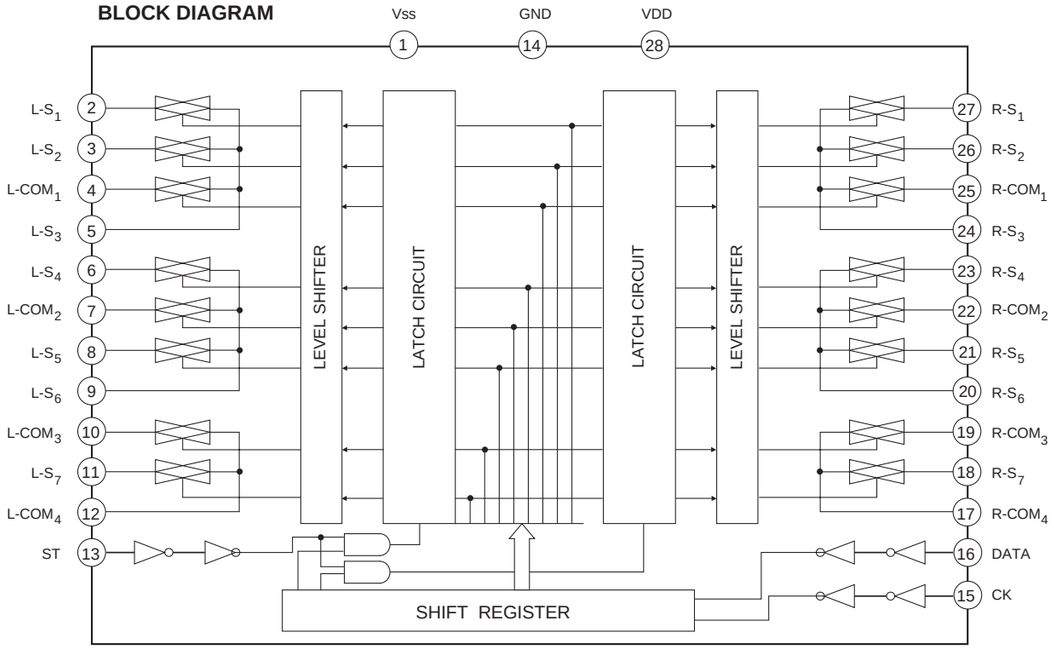
IC20 : TC9164AF

BLOCK DIAGRAM

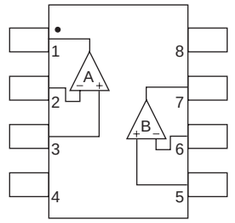


IC21 : TC9163AF

BLOCK DIAGRAM



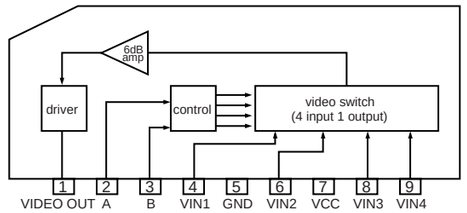
IC22~26, 32~35 : LA6462



LA6462M/
LA6458M

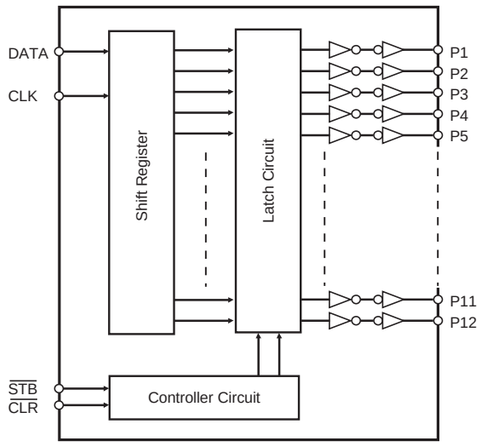
PIN FUNCITON
1. A OUTPUT
2. A-INPUT
3. A+INPUT
4. V⁻
5. B+INPUT
6. B-INPUT
7. B OUTPUT
8. V⁺

IC51~53 : LA7952



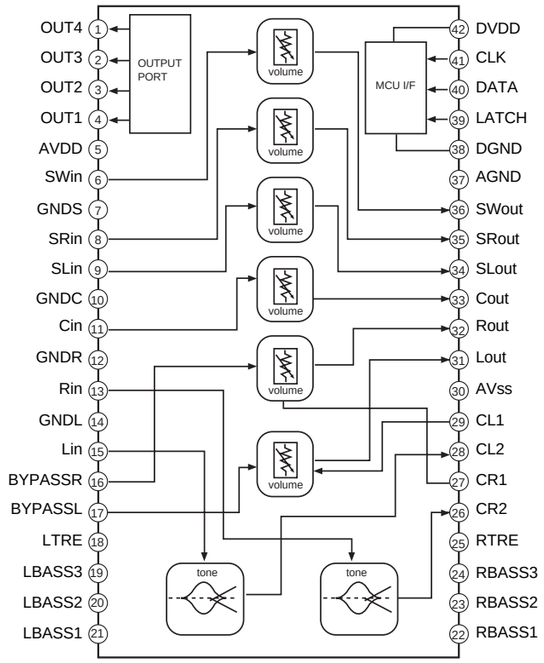
IC72 : NJU3713

BLOCK DIAGRAM

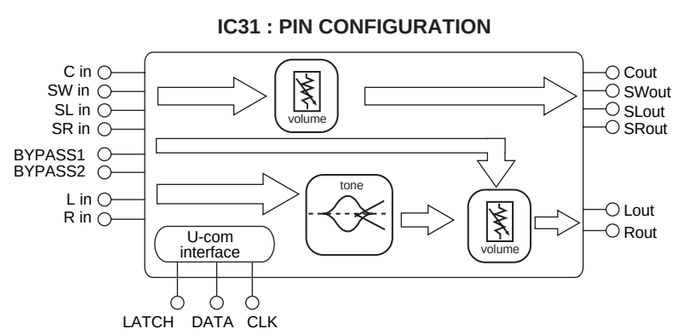


IC31 : M62446FP

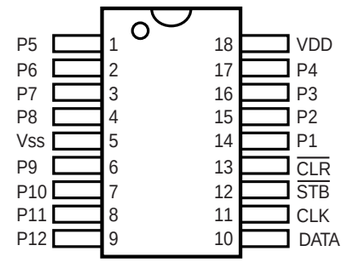
BLOCK DIAGRAM



IC31 : PIN CONFIGURATION



IC72 : PIN CONFIGURATION



7. MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTIONS

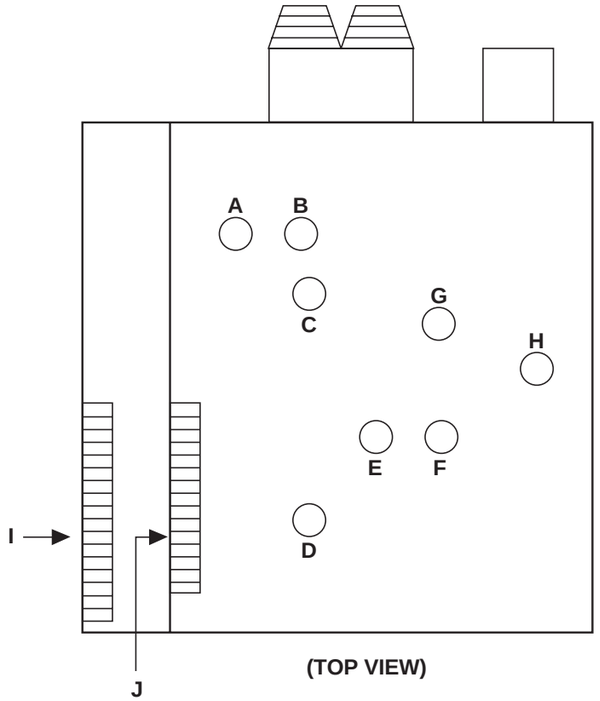
EQUIPMENT NEEDED:
AM Signal Generator
FM Signal Generator
Oscilloscope
VTVM(AC, DC)
Test loop antenna (AM Adjustment)
Dummy antenna (FM Adjustment)
Distortion analyser

IMPORTANT
1. Check power-source voltage.
2. Set the function switch to band aligned.
3. Keep the signal input as low as possible to adjust accurately.
4. Modulation and modulation frequency.

Item / Band	Modulation	Modulation frequency
AM	30%	400Hz
FM	100% (40 kHz Dev.) [N] 100% (75 kHz Dev.) [U/F/L/K]	400Hz

■ ADJUSTMENT POINT (Reference Schematic Diagram Tuner section)

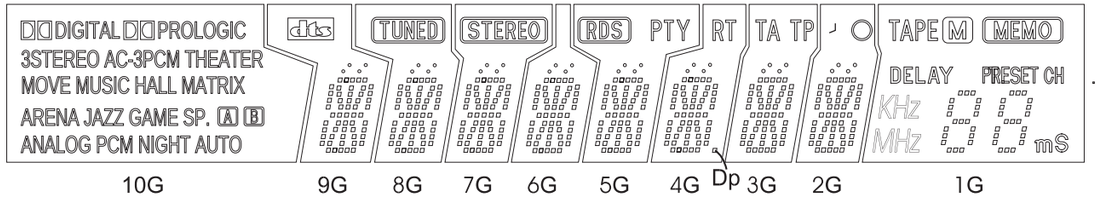
TUNER MODULE

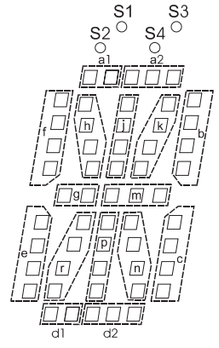


(TOP VIEW)

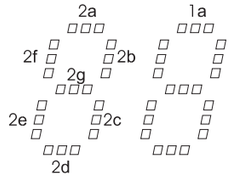
A : MW ANT COIL
B : LW ANT COIL (N Version)
C : FM Stereo Separation Adj
D : AM Tuned LED Level Adj
E : FD
F : AM IF
G : FM Tuned LED Level Adj
H : Unused
I : FOR EUR
J : Others

FIP DISPLAY





(2G~9G)

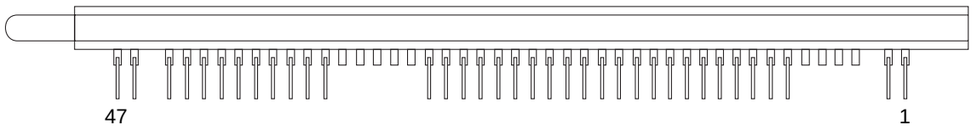


(1G)

ANODE CONNECTION

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	AUTO	d2	d2	d2	d2	d2	d2	d2	d2	kHz
P2	NIGHT	d1	d1	d1	d1	d1	d1	d1	d1	1d
P3	PCM	e	e	e	e	e	e	e	e	1e
P4	ANALOG	r	r	r	r	r	r	r	r	1c
P5	JAZZ	p	p	p	p	p	p	p	p	1g
P6	GAME	n	n	n	n	n	n	n	n	1f
P7	ARENA	c	c	c	c	c	c	c	c	1b
P8	SP.	f	f	f	f	f	f	f	f	1a
P9	A	g	g	g	g	g	g	g	g	M
P10	B	m	m	m	m	m	m	m	m	2d
P11	MATRIX	h	h	h	h	h	h	h	h	2e
P12	HALL	j	j	j	j	j	j	j	j	2c
P13	MUSIC	k	k	k	k	k	k	k	k	2g
P14	MUVIE	b	b	b	b	b	b	b	b	2f
P15	VIRTUAL	a2	a2	a2	a2	a2	a2	a2	a2	2b
P16	COS	a1	a1	a1	a1	a1	a1	a1	a1	2a
P17	DSP	S1	S1	S1	S1	S1	S1	S1	S1	DIGITAL
P18	STEREO	S2	S2	S2	S2	S2	S2	S2	S2	PRESET CH.
P19	3	S3	S3	S3	S3	S3	S3	S3	S3	MEMO
P20	DD	S4	S4	S4	S4	S4	S4	S4	S4	TAPE
P21	DIGITAL					RDS	Dp	TA		MHz
P22	DD PRO LOGIC		TUNED	STEREO		PTY	RT	TP		mS

PIN CONNECTION



Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Connection	F2	F2	NP	NX	NX	NX	NX	P22	P21	P20	P19	P18	P17	P16	P15

Pin No.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Connection	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NX

Pin No.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Connection	NX	NX	NX	NX	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	NP

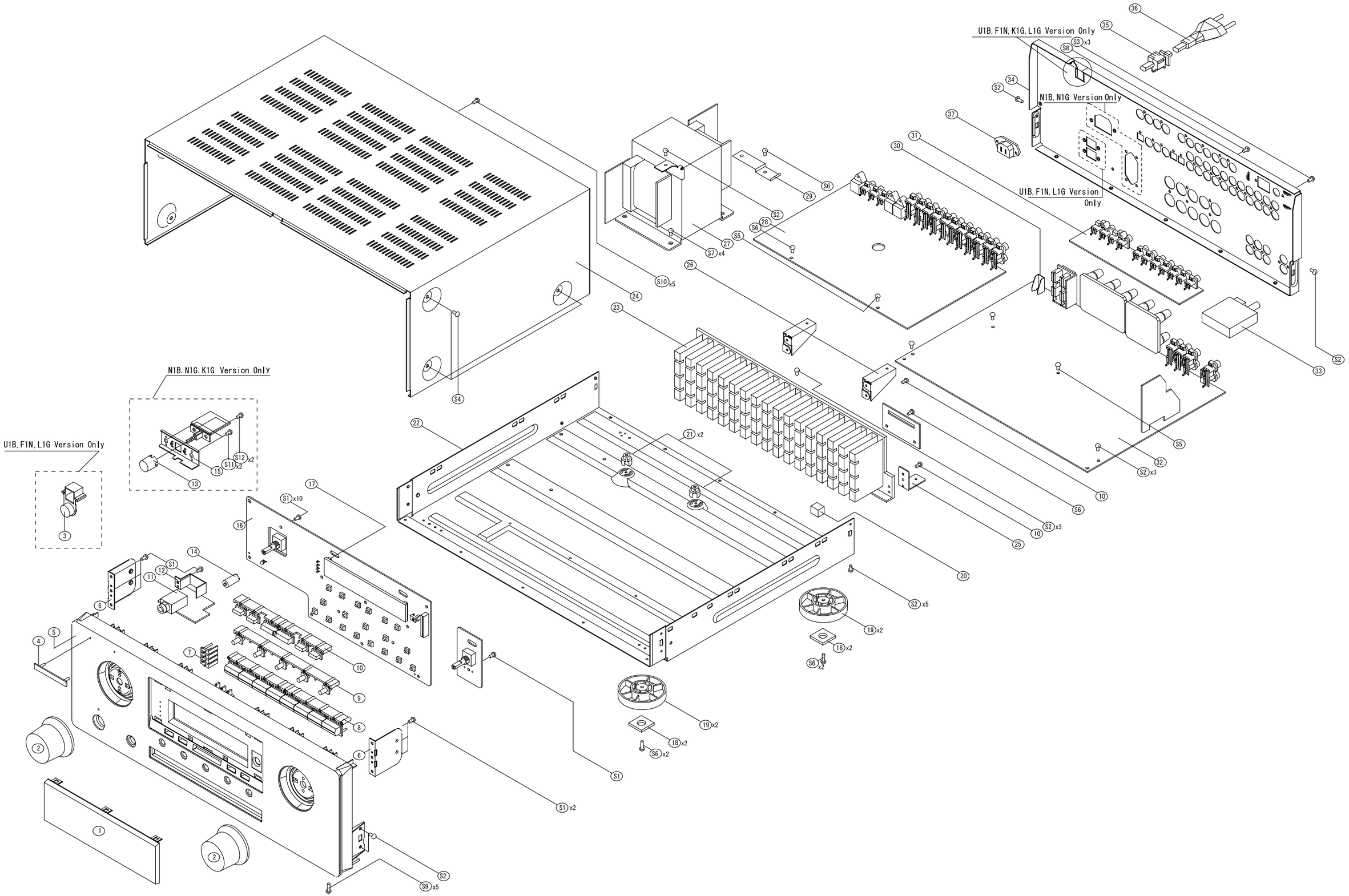
Pin No.	46	47
Connection	F1	F1

8. EXPLODED VIEW AND PARTS LIST

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
1		9965 000 10558	WINDOW.FIP	319W158010
2	BLACK	9965 000 09311	VOLUME KNOB ASS'Y (B)	313W154500
2	GOLD	9965 000 10608	VOLUME KNOB ASS'Y (G)	313W154510
3	U1B	nsp	POWER KNOB (B)	281W270010
3	F1N/L1G	nsp	POWER KNOB (G)	281W270110
4		4822 454 11825	MARANTZ BADGE	185J251010
5	N1B	9965 000 10559	FRONT PANEL	319W248010
5	N1G/K1G	9965 000 10609	FRONT PANEL	319W248020
5	U1B	nsp	FRONT PANEL	319W248110
5	F1N/L1G	nsp	FRONT PANEL	319W248120
6		nsp	SIDE BRACKET	nsp
7		9965 000 10563	OPTICAL INDICATOR	319W355010
8	BLACK	9965 000 10564	FUNCTION KNOB (B)	319W270010
8	GOLD	9965 000 10610	FUNCTION KNOB (G)	319W270110
9	BLACK	9965 000 10565	SURROUND KNOB (B)	319W270030
9	GOLD	9965 000 10611	SURROUND KNOB (G)	319W270130
10	BLACK	9965 000 10566	TUNING KNOB (B)	319W270020
10	GOLD	9965 000 10612	TUNING KNOB (G)	319W270120
11		9965 000 10567	JACK FOR HEADPHONE	*YT002350R
12		nsp	PCB BRACKET	nsp
13	N1B	9965 000 01291	POWER PUSH KNOB (B)	285W270010
13	N1G/K1G	9965 000 10458	POWER PUSH KNOB (G)	285W270110
14		9965 000 01244	INDICATOR	285W355010
15	N1B/N1G /K1G	nsp	POWER BRACKET	nsp
16	N1B/N1G	nsp	FRONT PCB ASS'Y	nsp
16	U1B	nsp	FRONT PCB ASS'Y	nsp
16	F1N	nsp	FRONT PCB ASS'Y	nsp
16	K1G	nsp	FRONT PCB ASS'Y	nsp
16	L1G	nsp	FRONT PCB ASS'Y	nsp
17		nsp	FIP SUPPORT	nsp
18		nsp	RUBBER CUSHION	nsp
19		4822 462 11013	FOOT	243W057010
20		nsp	SUPPORT CUSHION	nsp
21		nsp	PCB HOLDER	nsp
22		nsp	BOTTOM CHASSIS	nsp
23		nsp	HEATSINK	nsp
24	BLACK	nsp	TOP CABINET (B)	nsp
24	GOLD	nsp	TOP CABINET (G)	nsp
25		nsp	PCB BRACKET	nsp
26		nsp	BRACKET PCB(H/T)	nsp
⚠ 27	N1B/N1G /K1G	9965 000 10569	MAINS TRANSF. (N / K)	*TS001420R
⚠ 27	U1B/L1G	nsp	MAINS TRANSF. (U / L)	*TS001430R
⚠ 27	F1N	nsp	MAINS TRANSF. (F)	*TS001440R
28	N1B/N1G	nsp	INPUT PCB ASS'Y	nsp
28	U1B	nsp	INPUT PCB ASS'Y	nsp
28	F1N	nsp	INPUT PCB ASS'Y	nsp
28	K1G	nsp	INPUT PCB ASS'Y	nsp
28	L1G	nsp	INPUT PCB ASS'Y	nsp
29		nsp	TR BRACKET	nsp
30		nsp	PCB BRACKET	nsp
31		nsp	VIDEO PCB	nsp
32	N1B/N1G	nsp	MAIN PCB ASS'Y	nsp
32	U1B	nsp	MAIN PCB ASS'Y	nsp
32	F1N	nsp	MAIN PCB ASS'Y	nsp
32	K1G	nsp	MAIN PCB ASS'Y	nsp
32	L1G	nsp	MAIN PCB ASS'Y	nsp
33	F1N/K1G	nsp	TUNER MODULE (F / K)	*AV000100R
33	L1G/U1N	nsp	TUNER MODULE (L / U)	*AV000110R
33	N1B/N1G	9965 000 10568	TUNER MODULE (N)	*AV000120R
34	N1B	nsp	REAR PANEL (N1B)	nsp
34	N1G	nsp	REAR PANEL (N1G)	nsp
34	U1B	nsp	REAR PANEL (U1B)	nsp
34	F1N	nsp	REAR PANEL (F1N)	nsp
34	L1G	nsp	REAR PANEL (L1G)	nsp
34	K1G	nsp	REAR PANEL (K1G)	nsp

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
35		nsp	BUSHING FOR AC CORD	nsp
⚠ 36	N1B/N1G	9965 000 10570	MAINS CORD (N)	*YC000540R
⚠ 36	U1B/L1G	nsp	MAINS CORD (U / L)	*YC000380R
⚠ 36	F1N	nsp	MAINS CORD (F)	*YC000550R
⚠ 36	K1G	nsp	MAINS CORD (K)	*YC000400R
⚠ 37	N1B/N1G	9965 000 10571	AC RECEPTACLE (N)	*YT002400R
⚠ 37	F1N/L1G /U1B	nsp	AC OUTLET (F / L / U)	*YT002410R
S1		nsp	SCREW	nsp
S2		nsp	SCREW	nsp
S3		nsp	SCREW	nsp
S4	BLACK	nsp	SCREW	nsp
S4	GOLD	nsp	SCREW	nsp
S5		nsp	SCREW	nsp
S6		nsp	SCREW	nsp
S7		nsp	SCREW FOR TRANSF.	nsp
S8		nsp	SCREW	nsp
S9	BLACK	nsp	SCREW	nsp
S9	GOLD	nsp	SCREW	nsp
S10	BLACK	nsp	SCREW	nsp
S10	GOLD	nsp	SCREW	nsp
S11	N1B/N1G /K1G	nsp	SCREW	nsp
S12	N1B/N1G /K1G	nsp	SCREW	nsp
			PACKING	
001Z		9965 000 10582	REMOTE CONTROLLER (RC5200SR)	ZK320W0010
001T	N1B/N1G	9965 000 10581	USER GUIDE (N)	319W851310
001T	U1B	nsp	USER GUIDE (U)	319W851250
001T	K1G/L1G	nsp	USER GUIDE (K / L)	319W851350
001T	F1N	nsp	USER GUIDE (F)	319W851110
			NOT STANDARD SPARE PARTS	
	F1N/U1B	nsp	ANT FM.T (LUG TYPE)	nsp
		nsp	AM LOOP ANTENNA ASS'Y	nsp
		nsp	BATTERY	nsp
	F1N/U1B	nsp	ANT. ADAPTOR 75-300 (NTSC)	nsp
	K1G/L1G /N1B/N1G	nsp	FM ANT. WIRE	nsp

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.


U1B, F1N, K1G, L1G Version Only
N1B, N1G Version Only
U1B, F1N, L1G Version Only
N1B, N1G, K1G Version Only
U1B, F1N, L1G Version Only

9. ELECRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R✻✻✻: 1) GD05 × × × 140, Carbon film fixed resistor, ±5% 1/4W
R✻✻✻: 2) GD05 × × × 160, Carbon film fixed resistor, ±5% 1/6W
① ——— Resistance value

Examples ;
① Resistance value

0.1 Ω 001	10 Ω 100	1 kΩ 102	100 kΩ 104
0.5 Ω 005	18 Ω 180	2.7 kΩ 272	680 kΩ 684
1 Ω 010	100 Ω 101	10 kΩ 103	1 MΩ 105
6.8 Ω 068	390 Ω 391	22 kΩ 223	4.7 MΩ 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C✻✻✻: CERAMIC CAP.
3) DD1 × × × × 370, Ceramic capacitor
② ③ Disc type
Temp.coeff.P350 ～N1000, 50V
③ ——— Capacity value
② ——— Tolerance

Examples ;
② Tolerance (Capacity deviation)
±0.25 pF 0
±0.5 pF 1
±5% 5
✻ Tolerance of COMMON PARTS handled here are as follows :
0.5 pF～ 5 pF .... ±0.25 pF
6 pF～ 10 pF .... ±0.5 pF
12 pF～ 560 pF .... ±5%
③ Capacity value

0.5 pF 005	3 pF 030	100 pF 101
1 pF 010	10 pF 100	220 pF 221
1.5 pF 015	47 pF 470	560 pF 561

C✻✻✻ : CERAMIC CAP.
4) DK16 × × × 300, High dielectric constant ceramic capacitor
④ Disc type
Temp.chara. 2B4, 50V
④ ——— Capacity value

Examples ;
④ Capacity value

100 pF 101	1000 pF 102	10000 pF 103
470 pF 471	2200 pF 222	

C✻✻✻ : 5) ELECTROLY CAP. (⏚), 6) FILM CAP. (⏚)
5) EA × × × × × × 10, Electrolytic capacitor
⑤ ⑥ One-way lead type, Tolerance ±20%
⑥ ——— Working voltage
⑤ ——— Capacity value

Examples ;
⑤ Capacity value

0.1 µF 104	4.7 µF 475	100 µF 107
0.33 µF 334	10 µF 106	330 µF 337
1 µF 105	22 µF 226	1100 µF 118
		2200 µF 228

⑥ Working voltage

6.3V 006	25V 025
10V 010	35V 035
16V 016	50V 050

6) DF15 × × × 350 → Plastic film capacitor
DF15 × × × 310 → One-way type, Mylar ±5% 50V
DF16 × × × 310 → Plastic film capacitor
⑦ One-way type, Mylar ±10% 50V
⑦ ——— Capacity value

Examples ;
⑦ Capacity value

0.001 µF (1000 pF) 102	0.1 µF 104
0.0018 µF 182	0.56 µF 564
0.01 µF 103	1 µF 105
0.015 µF 153	

NOTE : 1) The above CODES (R✻✻✻ , R✻✻✻ , C✻✻✻ , C✻✻✻ and C ✻✻✻) are omitted on the schematic diagram in some case.
2) On the occasion, be confirmed the common parts on the parts list.
3) Refer to “Common Parts List” for the other common parts (**RI05**, **DD4**, **DK4**).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;

1. KOA Corporation

Part No. (MJI)	Type No. (KOA)	Description
NH05 × × × 140 →	RF25S × × × × ΩJ	(±5% 1/4W)
NH05 × × × 120 →	RF50S × × × × ΩJ	(±5% 1/2W)
NH85 × × × 110 →	RF73B2A × × × × ΩJ	(±5% 1/10W)
NH95 × × × 140 →	RF73B2E × × × × ΩJ	(±5% 1/4W)

✻ Resistance value — Resistance value (0.1 Ω – 10 kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No. (MJI)	Type No. (MEC)	Description
NF05 × × × 140 →	ERD-2FCJ × × ×	(±5% 1/4W)
RF05 × × × 140 →		
NF02 × × × 140 →	ERD-2FCG × × ×	(±2% 1/4W)
RF02 × × × 140 →		

✻Resistance value — ✻Resistance value

Examples ;
✻Resistance value

0.1 Ω 001	10 Ω 100	1 kΩ 102	100 kΩ 104
0.5 Ω 005	18 Ω 180	2.7 kΩ 272	680 kΩ 684
1 Ω 010	100 Ω 101	10 kΩ 103	1 MΩ 105
6.8 Ω 068	390 Ω 391	22 kΩ 223	4.7 MΩ 475

ABBREVIATION AND MARKS

ANT.	: ANTENNA	BATT.	: BATTERY
CAP.	: CAPACITOR	CER.	: CERAMIC
CONN.	: CONNECTING	DIG.	: DIGITAL
HP	: HEADPHONE	MIC.	: MICROPHONE
µ-PRO	: MICROPROCESSOR	REC.	: RECORDING
RES.	: RESISTOR	SPK	: SPEAKER
SW	: SWITCH	TRANSF.	: TRANSFORMER
TRIM.	: TRIMMING	TRS.	: TRANSISTOR
VAR.	: VARIABLE	X'TAL	: CRYSTAL

NOTE ON FUSE :
Regarding to all parts of parts code **FS20**xxx**2**xx, replace only with Wickmann-Werke GmbH, Type 372 non glass type fuse.

NOTE ON SAFETY :
Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol ⚠ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意：
⚠がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

010728 A.O

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
			FRONT CIRCUIT BOARD	
			CAPACITORS	
C701				
∫		nsp	ELECT 47µF 25V	nsp
C704				
C705		nsp	ELECT 10µF 35V	nsp
C706		nsp	ELECT 4.7µF 50V	nsp
C707		nsp	ELECT 220µF 10V	nsp
C708		nsp	ELECT 1000µF 6.3V	nsp
C709		9965 000 01510	GOLD EECS0HD 104V	*EX000050R
C710		nsp	ELECT 1µF 50V	nsp
C711		nsp	CER. 0.022µF 50V Z	nsp
C712		nsp	CER. 0.022µF 50V Z	nsp
C713		nsp	CER. 180pF 50V K	nsp
C714		nsp	CER. 0.022µF 50V Z	nsp
C715		nsp	CER. 18pF 50V J	nsp
C716		nsp	CER. 18pF 50V J	nsp
C717		nsp	CER. 820pF 50V K	nsp
C718		nsp	CER. 0.022µF 50V Z	nsp
C719		nsp	CER. 820pF 50V K	nsp
C720		nsp	CER. 0.022µF 50V Z	nsp
C721		nsp	CER. 0.022µF 50V Z	nsp
C722		nsp	CER. 0.022µF 50V Z	nsp
C723		nsp	CER. 180pF 50V K	nsp
C724		nsp	CER. 180pF 50V K	nsp
C725		nsp	CER. 180pF 50V K	nsp
C726		nsp	CER. 0.022µF 50V Z	nsp
C727		nsp	CER. 0.022µF 50V Z	nsp
C728		nsp	CER. 100pF 50V K	nsp
C729		nsp	CER. 100pF 50V K	nsp
C730		nsp	CER. 22pF 50V J	nsp
C731		nsp	CER. 22pF 50V J	nsp
C732		nsp	CER. 1000pF 50V B	nsp
C733		nsp	CER. 0.022µF 50V Z	nsp
C734		nsp	CER. 0.022µF 50V Z	nsp
C735		nsp	SEMI 0.1µF 50V Z	nsp
C736		nsp	CER. 1000pF 50V B	nsp
C737		nsp	SEMI 0.1µF 50V Z	nsp
C738		nsp	ELECT 0.47µF 50V	nsp
C781	N /K	nsp	MYLAR 2200pF 50V J	nsp
C782	N /K	nsp	MYLAR 2200pF 50V J	nsp
C783		nsp	CER. 0.1µF 50V Z	nsp
⚠ C801	K /N	nsp	CER. (KH) DE1310-610E472M	nsp
			RESISTORS	
R702		nsp	10k Ω 1/5W J	nsp
R703		nsp	1k Ω 1/5W J	nsp
R704		nsp	10k Ω 1/5W J	nsp
R705		nsp	1k Ω 1/5W J	nsp
R706				
∫		nsp	270 Ω 1/5W J	nsp
R710				
R711		nsp	1k Ω 1/5W J	nsp
R712		nsp	3.3k Ω 1/5W J	nsp
R713		nsp	10k Ω 1/5W J	nsp
R714		nsp	47k Ω 1/5W J	nsp
R715		nsp	10k Ω 1/5W J	nsp
R716		nsp	10k Ω 1/5W J	nsp
R717		nsp	15k Ω 1/5W J	nsp
R718		nsp	1k Ω 1/5W J	nsp
R719		nsp	2.7k Ω 1/5W J	nsp
R720		nsp	2.7k Ω 1/5W J	nsp
R721		nsp	10k Ω 1/5W J	nsp
R722		nsp	10k Ω 1/5W J	nsp
R723		nsp	1.8k Ω 1/5W J	nsp
R724		nsp	10k Ω 1/5W J	nsp
R725		nsp	10k Ω 1/5W J	nsp
R726		nsp	10 Ω 1/5W J	nsp

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
R727				
∫		nsp	10k Ω 1/5W J	nsp
R731				
R732		nsp	27k Ω 1/5W J	nsp
R733		nsp	27k Ω 1/5W J	nsp
R734		nsp	27k Ω 1/5W J	nsp
R735		nsp	100k Ω 1/5W J	nsp
R736		nsp	27k Ω 1/5W J	nsp
R737		nsp	47k Ω 1/5W J	nsp
R738		nsp	10k Ω 1/5W J	nsp
R739		nsp	10k Ω 1/5W J	nsp
R740		nsp	10k Ω 1/5W J	nsp
R741		nsp	1k Ω 1/5W J	nsp
R742		nsp	1k Ω 1/5W J	nsp
R743		nsp	1k Ω 1/5W J	nsp
R744		nsp	1.5k Ω 1/5W J	nsp
R745		nsp	1.5k Ω 1/5W J	nsp
R746		nsp	1.5k Ω 1/5W J	nsp
R747		nsp	1.8k Ω 1/5W J	nsp
R748		nsp	1.8k Ω 1/5W J	nsp
R749		nsp	1.8k Ω 1/5W J	nsp
R750		nsp	2.7k Ω 1/5W J	nsp
R751		nsp	2.7k Ω 1/5W J	nsp
R752		nsp	2.7k Ω 1/5W J	nsp
R753		nsp	3.3k Ω 1/5W J	nsp
R754		nsp	3.3k Ω 1/5W J	nsp
R755		nsp	3.3k Ω 1/5W J	nsp
R756		nsp	5.6k Ω 1/5W J	nsp
R757		nsp	7.5k Ω 1/5W J	nsp
R758		nsp	10k Ω 1/5W J	nsp
R759		nsp	10k Ω 1/5W J	nsp
R760				
∫		nsp	2.7k Ω 1/5W J	nsp
R763				
R764		nsp	1k Ω 1/5W J	nsp
R765		nsp	1k Ω 1/5W J	nsp
R766		nsp	1.2k Ω 1/5W J	nsp
R767		nsp	3.9k Ω 1/5W J	nsp
R768		nsp	1k Ω 1/5W J	nsp
R769		nsp	1k Ω 1/5W J	nsp
R770		nsp	1k Ω 1/5W J	nsp
R771		nsp	5.6k Ω 1/5W J	nsp
R772		nsp	10k Ω 1/5W J	nsp
R773		nsp	10k Ω 1/5W J	nsp
R774		nsp	100 Ω 1/5W J	nsp
R775		nsp	10k Ω 1/5W J	nsp
R776		nsp	10k Ω 1/5W J	nsp
R777		nsp	10k Ω 1/5W J	nsp
⚠ R781		4822 053 10471	METAL 470 Ω 1W J	GA05471010
⚠ R782		4822 053 10471	METAL 470 Ω 1W J	GA05471010
			SEMICONDUCTORS	
D702				
∫		4822 130 82725	L.E.D. RED SLR342VCTB7	HI10071210
D706				
D707				
∫		4822 130 32778	DIODE 1SS133T-77	HD20015210
D713				
D714		4822 130 31878	DIODE 1N4003	HD200010AR
D718	F /N /U	4822 130 32778	DIODE 1SS133T-77	HD20015210
D719		4822 130 32778	DIODE 1SS133T-77	HD20015210
D781		4822 130 32778	DIODE 1SS133T-77	HD20015210
IC71		9965 000 10575	IC u-COM (MASK) TMP87CS71F-XXXX	*HC106970R
IC72		9965 000 10594	IC EXPANDER NJU3713G	HC10135090
IC73		9965 000 10595	IC AND GATE (QUAD/2IN L/V) 74LCX08MX	*HC106920R

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
Q701		4822 130 11611	TRS. KSA1175Y	*HT100390R
Q702		9965 000 10444	TRS. KRC107M	*BA001070R
Q703		9965 000 10603	TRS. KRC104M	*HT300830R
Q704		4822 130 11611	TRS. KSA1175Y	*HT100390R
Q705		4822 130 11609	TRS. KSC2785Y	*HT300590R
Q706				
∫		9965 000 10444	TRS. KRC107M	*BA001070R
Q709				
			MISCELLANEOUS	
BK71		nsp	BRACKET FLT	nsp
BK72		nsp	BRACKET FLT	nsp
BN71				
∫		nsp	WIRE ASS'Y	nsp
BN74				
CN71		9965 000 10584	CABLE CARD	*YU000920R
CN71		nsp	WAFER CARD CABLE GF120-27S-TS	nsp
CN72		nsp	WAFER MOLEX53015-0310	nsp
CN74		nsp	WAFER MOLEX 5267-02A	nsp
CN81	K /N	nsp	WAFER MOLEX35328-02	nsp
CN83		nsp	WAFER MOLEX 5267-03A	nsp
FIP1		9965 000 10574	F.I.P HNA-10SM14	*HQ300490R
JK71		9965 000 10567	JACK	*YT002350R
JW71		nsp	WIRE ASS'Y	nsp
JW92		nsp	WIRE ASS'Y	nsp
RS71		9965 000 06833	SENSOR REMOCON RPM6936-H4	HW10008210
S701				
∫		9965 000 01263	SW TACT SKHV10910G	*SP000890R
S714				
S715	F /L /U	9965 000 01263	SW TACT SKHV10910G	*SP000890R
S716				
∫		9965 000 01263	SW TACT SKHV10910G	*SP000890R
S720				
⚠ SW81	K /N	4822 276 14105	SW PUSH (MOMS) JPP1197-1	*SP000850R
VE71		9965 000 02022	VR ENCODER EC16B243040HB	*SR000130R
VE72		9965 000 10605	ENCODER EC16B12S00D4ZZZ	*SR000180R
X701		4822 242 10855	CRYSTAL 8MHz	*JX000410R
			MAIN CIRCUIT BOARD	
			CAPACITORS	
C501				
∫		nsp	ELECT 10µF 35V	nsp
C505				
C506				
∫		nsp	CER. 470pF 50V K	nsp
C510				
C561				
∫		nsp	ELECT 100µF 16V	nsp
C565				
C601				
∫		nsp	CER. 15pF 50V J	nsp
C605				
C606				
∫		nsp	CER. 180pF 50V J	nsp
C610				
C611				
∫		nsp	ELECT 10µF 50V	nsp
C615				
C631				
∫		nsp	ELECT 220µF 63V	nsp
C640				
C641				
∫		nsp	ELECT 10µF 50V	nsp
C645				

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
C681				
∫		nsp	ELECT 10µF 50V	nsp
C685				
C821				
∫		nsp	CER. 470pF 50V K	nsp
C825				
C826		nsp	CER. 470pF 50V K	nsp
C901		nsp	SEMI 0.1µF 50V Z	nsp
⚠ C903		9965 000 04979	LINE ACROSS 0.1µF 250V KD	DF17104630
⚠ C904		nsp	CER. 0.0047µF 2.5KV	nsp
C905		nsp	CER. 0.022µF 50V Z	nsp
C906		4822 124 40214	ELECT 1000µF 25V	EA10802510
C907		nsp	ELECT 100µF 16V	nsp
C908		nsp	CER. 0.022µF 50V Z	nsp
C911		nsp	ELECT 470µF 16V	nsp
C912		nsp	ELECT 100µF 35V	nsp
C915		9965 000 10572	ELECT 8200µF 63V FHS	*EA001050R
C916		9965 000 10572	ELECT 8200µF 63V FHS	*EA001050R
C917		nsp	ELECT 3300µF 25V	nsp
C918		4822 124 12412	ELECT 2200µF 25V	*EA000830R
C922		nsp	ELECT 100µF 35V	nsp
C923		nsp	CER. 0.022µF 50V Z	nsp
C924		nsp	ELECT 100µF 35V	nsp
C925		nsp	CER. 0.022µF 50V Z	nsp
C938		nsp	ELECT 1µF 50V	nsp
C939		nsp	ELECT 4.7µF 50V	nsp
C940		nsp	ELECT 470µF 10V	nsp
C961		9965 000 02033	ELECT 3300µF 16V	*EA000930R
C962		nsp	ELECT 100µF 16V	nsp
C963		nsp	CER. 0.022µF 50V Z	nsp
C971				
∫	K /N	nsp	MYLAR 0.0056µF 50V J	nsp
C975				
C976				
∫	K /N	nsp	CER. 0.047µF 50V Z	nsp
C979				
C991		nsp	ELECT 1µF 50V	nsp
C993				
∫		nsp	MYLAR 0.047µF 50V J	nsp
C997				
C998		nsp	CER. 100pF 50V K	nsp
			RESISTORS	
R501		nsp	4.7k Ω 1/5W J	nsp
R502		nsp	4.7k Ω 1/5W J	nsp
R503		nsp	4.7k Ω 1/5W J	nsp
R506				
∫		nsp	33k Ω 1/5W J	nsp
R510				
R511				
∫		nsp	15 Ω 1/5W J	nsp
R520				
R521		nsp	4.7k Ω 1/5W J	nsp
R522		nsp	4.7k Ω 1/5W J	nsp
R523		nsp	4.7k Ω 1/5W J	nsp
R526				
∫		nsp	56 Ω 1/5W J	nsp
R530				
R531				
∫		nsp	1.5k Ω 1/5W J	nsp
R540				
R541				
∫		nsp	270 Ω 1/5W J	nsp
R545				
R551				
∫		nsp	47k Ω 1/5W J	nsp
R555				

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
R556				
⟆		nsp	33k Ω 1/5W J	nsp
R560				
R561				
⟆		nsp	1.5k Ω 1/5W J	nsp
R565				
R566				
⟆		nsp	560 Ω 1/5W J	nsp
R590				
R591				
⟆		nsp	4.7k Ω 1/5W J	nsp
R600				
R601				
⟆		nsp	22k Ω 1/5W J	nsp
R610				
R611				
⟆		nsp	560 Ω 1/5W J	nsp
R615				
R616				
⟆		nsp	1.8k Ω 1/5W J	nsp
R620				
R621				
⟆		nsp	100 Ω 1/5W J	nsp
R630				
⚠ R631				
⟆		nsp	100 Ω 1/4W FJ	nsp
⚠ R640				
⚠ R641				
⟆		nsp	220 Ω 1/4W FJ	nsp
⚠ R645				
⚠ R646				
⟆		nsp	2.2 Ω 1/4W FJ	nsp
⚠ R655				
⚠ R656				
⟆		9965 000 10579	CEMENT(*2) 0.27/5W *2	*GO000008R
⚠ R660				
R666				
⟆		nsp	47 Ω 1/4W J	nsp
R670				
R671				
⟆		nsp	9.1k Ω 1/5W J	nsp
R675				
R676				
⟆		nsp	1.8k Ω 1/5W J	nsp
R680				
R681				
⟆		nsp	5.6k Ω 1/5W J	nsp
R685				
R686				
⟆		nsp	10k Ω 1/5W J	nsp
R690				
R691				
⟆		nsp	18k Ω 1/5W J	nsp
R695				
R696				
⟆		nsp	47 Ω 1/4W J	nsp
R700				
R801				
⟆		nsp	1k Ω 1/5W J	nsp
R806				
R811				
⟆		nsp	4.7k Ω 1/5W J	nsp
R816				
R821				
⟆		nsp	47k Ω 1/5W J	nsp
R826				
R904	U	nsp	3.3M Ω 1/2W	nsp
⚠ R905		4822 053 10109	METAL 10 Ω 1W J	GA05100010
R910		nsp	1M Ω 1/5W J	nsp

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
R911		nsp	56 Ω 1/4W J	nsp
R913		nsp	1.5k Ω 1/5W J	nsp
R914		nsp	1.5k Ω 1/5W J	nsp
R917				
⟆		nsp	3.9k Ω 1/5W J	nsp
R920				
R930		nsp	10k Ω 1/5W J	nsp
R932		nsp	10k Ω 1/5W J	nsp
R938		nsp	1 Ω 1/5W J	nsp
R939		nsp	4.7k Ω 1/5W J	nsp
R940		nsp	1.5k Ω 1/5W J	nsp
R941				
⟆		nsp	22k Ω 1/5W J	nsp
R945				
R960		nsp	3.3k Ω 1/5W J	nsp
R963		nsp	1M Ω 1/5W J	nsp
R966		nsp	10k Ω 1/5W J	nsp
R969				
⟆		nsp	4.7k Ω 1/5W J	nsp
R973				
R974				
⟆		nsp	470 Ω 1/5W J	nsp
R978				
R979				
⟆		nsp	47k Ω 1/5W J	nsp
R983				
R986		nsp	1k Ω 1/5W J	nsp
R987		nsp	560 Ω 1/5W J	nsp
R988		nsp	20k Ω 1/5W J	nsp
R991		nsp	5.6k Ω 1/5W J	nsp
R992		nsp	3.3k Ω 1/5W J	nsp
⚠ R993				
⟆		4822 053 10109	METAL 10 Ω 1W J	GA05100010
⚠ R997				
R998		nsp	1k Ω 1/5W J	nsp
			SEMICONDUCTORS	
D501		4822 130 32778	DIODE 1SS133T-77	HD20015210
D502		4822 130 32778	DIODE 1SS133T-77	HD20015210
D507		4822 130 32778	DIODE 1SS133T-77	HD20015210
D508		4822 130 32778	DIODE 1SS133T-77	HD20015210
D511				
⟆		4822 130 32778	DIODE 1SS133T-77	HD20015210
D516				
D581				
⟆		4822 130 32778	DIODE 1SS133T-77	HD20015210
D585				
D901		4822 130 31878	DIODE 1N4003	HD200010AR
D902		4822 130 32778	DIODE 1SS133T-77	HD20015210
D903				
⟆		4822 130 31878	DIODE 1N4003	HD200010AR
D906				
D911		4822 130 32778	DIODE 1SS133T-77	HD20015210
D912		4822 130 32778	DIODE 1SS133T-77	HD20015210
D914				
⟆		4822 130 32778	DIODE 1SS133T-77	HD20015210
D917				
D931		4822 130 32778	DIODE 1SS133T-77	HD20015210
D953		4822 130 32778	DIODE 1SS133T-77	HD20015210
IC91		nsp	HEAT SINK ASS'Y	nsp
⚠ IC91		4822 209 90087	IC REGULATOR KA7812-ABTU	*HC700200R
⚠ IC92		9965 000 10576	IC REGULATOR KA7912-ABTU	*HC700210R
⚠ IC93		4822 209 90086	IC REGULATOR KA7805-ABTU	*HC300210R
⚠ IC95		4822 209 90086	IC REGULATOR KA7805-ABTU	*HC300210R
Q511				
⟆		4822 130 11615	TRS. KTA1268GR	*HT100400R
Q520				

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
Q541				
∫		4822 130 11615	TRS. KTA1268GR	*HT100400R
Q545				
Q556				
∫		4822 130 11616	TRS. KTC3200GR	*HT300610R
Q565				
Q581				
∫		4822 130 11615	TRS. KTA1268GR	*HT100400R
Q585				
⚠ Q611				
∫		9965 000 10578	TRS. BIAS KTD600KGR	*HT400460R
⚠ Q615				
Q621				
∫		5322 130 61728	TRS. PRE DRIVE KTA1360Y	*HT100540R
Q625				
Q626				
∫		5322 130 61737	TRS. PRE DRIVE KTC3423Y	*HT300820R
Q630				
Q642				
∫		9965 000 10601	TRS. DRIVE KTD2061Y	*HT400470R
Q645				
Q646				
∫		9965 000 10602	TRS. DRIVE KTB1369Y	*HT200400R
Q650				
Q656		9965 000 10601	TRS. DRIVE KTD2061Y	*HT400470R
⚠ Q657				
∫		4822 130 63433	TRS. POWER 2SC4467	HT344673A0
⚠ Q664				
⚠ Q665		4822 130 63367	TRS. POWER 2SA1694	HT116943A0
⚠ Q670		4822 130 63433	TRS. POWER 2SC4467	HT344673A0
Q681				
∫		4822 130 11609	TRS. KSC2785Y	*HT300590R
Q685				
Q801				
∫		9965 000 10604	TRS. KTD1302	*HT400450R
Q806				
Q901		9965 000 10444	TRS. KRC107M	*BA001070R
Q935		9965 000 10444	TRS. KRC107M	*BA001070R
Q938		9965 000 10443	TRS. KRA107M	*BA001060R
Q939		9965 000 10443	TRS. KRA107M	*BA001060R
Q940		9965 000 10443	TRS. KRA107M	*BA001060R
Q942		4822 130 11609	TRS. KSC2785Y	*HT300590R
Q943		4822 130 11609	TRS. KSC2785Y	*HT300590R
Q951		9965 000 10444	TRS. KRC107M	*BA001070R
Q952		9965 000 10443	TRS. KRA107M	*BA001060R
Q953		9965 000 10604	TRS. KTD1302	*HT400450R
Q954		9965 000 10604	TRS. KTD1302	*HT400450R
Q955		9965 000 10604	TRS. KTD1302	*HT400450R
Q969				
∫		9965 000 10604	TRS. KTD1302	*HT400450R
Q973				
Q991		9965 000 10444	TRS. KRC107M	*BA001070R
Q992		9965 000 10443	TRS. KRA107M	*BA001060R
			MISCELLANEOUS	
BN20		nsp	WIRE ASS'Y	nsp
BN83		nsp	WIRE ASS'Y	nsp
BN90		nsp	WIRE ASS'Y	nsp
BN91		nsp	WIRE ASS'Y (W/FERRITE)	nsp
CN73		nsp	WAFER MOLEX53014-0710	nsp
CN91		nsp	WAFER 7.92MM(YUNHO)	nsp
CN92		nsp	WAFER MOLEX35328-02	nsp
CN94		nsp	WAFER MOLEX35336-1010	nsp
CN95		nsp	WAFER MOLEX35336-0810	nsp
CN96		nsp	WAFER MOLEX 5267-07A	nsp
ET01		nsp	PLATE EARTH	nsp
ET02		nsp	BRACKET PCB	nsp

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
ET03		nsp	PLATE EARTH	nsp
⚠ F901	F /L /U	nsp	FUSE SB 2.5A 250V	*FS000870R
⚠ F901	K /N	4822 070 12502	FUSE T 2.5A L 250V	*FS000560R
⚠ F902	F /L /U	nsp	FUSE SB 6.3A 250V	*FS000880R
⚠ F902	K /N	4822 252 11379	FUSE T 4A L 250V	*FS000670R
JK91		4822 265 11602	TERMINAL SP (RRRR/BBBB) SH0810361P	*YT001590R
JK92		4822 265 11603	TERMINAL SP (R/B) SH0210381P	*YT001580R
JK93		9965 000 10600	JACK BOARD	*YT002370R
JK94		9965 000 00207	JACK IN/OUT	*YT001750R
JW91		nsp	WIRE ASS'Y	nsp
JW92	F /L /U	nsp	WIRE ASS'Y	nsp
L501				
∫		4822 157 11872	COIL SPEAKER 0.5µH K	*LC107210R
L505				
⚠ RY93		4822 280 10386	RELAY OSA-SS-212DM3	*LY000180R
⚠ RY94		9965 000 02031	RELAY SDT-S-112DMR	*LY000230R
⚠ T901	K /N	9965 000 10580	TRANS SUB (K /N)	*TS000980R
⚠ T901	L /U	nsp	TRANS SUB (L /U)	*TS000990R
⚠ T901	F	nsp	TRANS SUB (F)	*TS001410R
⚠ TH91		9965 000 02037	THERMAL SENSOR POSISTOR P42T7D330BW20	*HP000060R
			INPUT CIRCUIT BOARD	
			CAPACITORS	
C101		nsp	ELECT 220µF 16V	nsp
C102		nsp	ELECT 220µF 16V	nsp
C103		nsp	SEMI 0.1µF 50V Z	nsp
C104		nsp	CER. 180pF 50V K	nsp
C105		nsp	SEMI 0.1µF 50V Z	nsp
C106		nsp	CER. 180pF 50V K	nsp
C107		nsp	SEMI 0.1µF 50V Z	nsp
C108		nsp	ELECT 100µF 16V	nsp
C109		nsp	CER. 0.1µF 50V Z	nsp
C110		nsp	ELECT 100µF 16V	nsp
C111		nsp	CER. 27pF 50V J	nsp
C112		nsp	CER. 27pF 50V J	nsp
C113		nsp	CER. 27pF 50V J	nsp
C114		nsp	ELECT 100µF 16V	nsp
C115		nsp	CER. 0.047µF 50V z	nsp
C121		nsp	CER. 0.1µF 50V Z	nsp
C122		nsp	ELECT 10µF 35V	nsp
C123		nsp	CER. 0.1µF 50V Z	nsp
C124		nsp	CER. 33pF 50V J	nsp
C125		nsp	CER. 33pF 50V J	nsp
C126		nsp	CER. 0.047µF 50V Z	nsp
C127		nsp	ELECT 10µF 35V	nsp
C128		nsp	CER. 100pF 50V K	nsp
C129		nsp	CER. 18pF 50V J	nsp
C130		nsp	CER. 18pF 50V J	nsp
C131		nsp	CER. 0.01µF 50V Z	nsp
C132		nsp	CER. 100pF 50V K	nsp
C133		nsp	CER. 220pF 50V J	nsp
C134		nsp	CER. 220pF 50V J	nsp
C135		nsp	CER. 1000pF 50V J	nsp
C136		nsp	CER. 100pF 50V K	nsp
C137		nsp	CER. 100pF 50V K	nsp
C138		nsp	CER. 100pF 50V K	nsp
C141		nsp	SEMI 0.1µF 50V Z	nsp
C142		nsp	CER. 0.047µF 50V Z	nsp
C143		nsp	ELECT 100µF 16V	nsp
C144		nsp	CER. 0.047µF 50V Z	nsp
C145		nsp	CER. 0.1µF 50V Z	nsp
C146		nsp	ELECT 100µF 16V	nsp
C147		nsp	ELECT 100µF 16V	nsp

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
C148		nsp	CER. 0.047µF 50V Z	nsp
C149		nsp	CER. 33pF 50V Z	nsp
C150		nsp	CER. 0.1µF 50V Z	nsp
C151		nsp	CER. 0.1µF 50V Z	nsp
C160		nsp	CER. 0.1µF 50V Z	nsp
C161		nsp	SEMI 0.1µF 50V Z	nsp
C162		nsp	ELECT 10µF 35V	nsp
C163		nsp	CER. 0.1µF 50V Z	nsp
C164		nsp	CER. 0.1µF 50V Z	nsp
C165		nsp	ELECT 10µF 35V	nsp
C166		nsp	ELECT 2.2µF 50V	nsp
C167		nsp	CER. 470pF 50V K	nsp
C168		nsp	CER. 0.01µF 50V Z	nsp
C169		nsp	SEMI 0.1µF 50V Z	nsp
C170		nsp	SEMI 0.1µF 50V Z	nsp
C171		nsp	SEMI 0.1µF 50V Z	nsp
C191		nsp	CER. 0.047µF 50V Z	nsp
C192		nsp	SEMI 0.1µF 50V Z	nsp
C193		nsp	ELECT 100µF 16V	nsp
C194		nsp	ELECT 470µF 10V	nsp
C195		nsp	CER. 0.047µF 50V Z	nsp
C196		nsp	ELECT 100µF 16V	nsp
C197		nsp	ELECT 470µF 10V	nsp
C198		nsp	CER. 0.047µF 50V Z	nsp
C201				
∫	K /N	nsp	CER. 100pF 50V K	nsp
C222				
C231				
∫		nsp	ELECT 10µF 35V	nsp
C236				
C243		nsp	MYLAR 1200pF 50V J	nsp
C244		nsp	MYLAR 1200pF 50V J	nsp
C245				
∫		nsp	MYLAR 2200pF 50V J	nsp
C248				
C249		nsp	MYLAR 1000pF 50V J	nsp
C250		nsp	MYLAR 1000pF 50V J	nsp
C255		nsp	CER. 150pF 50V K	nsp
C256		nsp	CER. 150pF 50V K	nsp
C257		nsp	CER, 150pF 50V K	nsp
C258		nsp	MYLAR 2200pF 50V J	nsp
C259		nsp	CER. 150pF 50V K	nsp
C260		nsp	CER. 150pF 50V K	nsp
C262				
∫		nsp	CER. 0.022µF 50V Z	nsp
C266				
C267				
∫		nsp	ELECT 10µF 35V	nsp
C272				
C276		nsp	CER. 0.022µF 50V Z	nsp
C301		nsp	CER. 0.022µF 50V Z	nsp
C302		nsp	CER. 0.022µF 50V Z	nsp
C303		nsp	ELECT 100µF 16V	nsp
C304		nsp	ELECT 100µF 16V	nsp
C305				
∫		nsp	CER. 0.022µF 50V Z	nsp
C316				
C321		nsp	CER. 180pF 50V K	nsp
C322		nsp	CER. 470pF 50V K	nsp
C323		nsp	CER. 180pF 50V K	nsp
C324		nsp	CER. 470pF 50V K	nsp
C325		nsp	CER. 180pF 50V K	nsp
C326		nsp	CER. 470pF 50V K	nsp
C327		nsp	CER. 180pF 50V K	nsp
C331		nsp	MYLAR 2200pF 50V J	nsp
C332		nsp	MYLAR 2200pF 50V J	nsp
C333		nsp	ELECT 22µF 50V	nsp
C334		nsp	ELECT 22µF 50V	nsp
C335		nsp	SEMI 0.1µF 50V Z	nsp

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
C336		nsp	SEMI 0.1µF 50V Z	nsp
C337		nsp	ELECT 10µF 35V	nsp
C338		nsp	ELECT 10µF 35V	nsp
C339		nsp	CER. 100pF 50V K	nsp
C340		nsp	CER. 100pF 50V K	nsp
C341		nsp	ELECT 100µF 16V	nsp
C342		nsp	ELECT 100µF 16V	nsp
C343		nsp	CER. 0.022µF 50V Z	nsp
C344		nsp	CER. 0.022µF 50V Z	nsp
C345		nsp	CER. 0.022µF 50V Z	nsp
C346		nsp	ELECT 100µF 16V	nsp
C347				
∫		nsp	ELECT 10µF 35V	nsp
C350				
C351		nsp	MYLAR 8200pF 50V J	nsp
C352		nsp	MYLAR 8200pF 50V J	nsp
C353		nsp	MYLAR 0.015µF 50V J	nsp
C354		nsp	MYLAR 0.015µF 50V J	nsp
C355		nsp	FILM 0.33µF 63V J	nsp
C356		nsp	FILM 0.33µF 63V J	nsp
C357		nsp	ELECT 0.33µF 50V	nsp
C358		nsp	ELECT 0.33µF 50V	nsp
C359		nsp	ELECT 470µF 16V	nsp
C360		nsp	ELECT 10µF 35V	nsp
C361		nsp	ELECT 10µF 35V	nsp
C362		nsp	ELECT 10µF 35V	nsp
C363		nsp	CER. 100pF 50V K	nsp
C364		nsp	CER. 100pF 50V K	nsp
C365		nsp	CER. 39pF 50V J	nsp
C366		nsp	CER. 39pF 50V J	nsp
C367		nsp	ELECT 10µF 35V	nsp
C368		nsp	ELECT 10µF 35V	nsp
C381		nsp	ELECT 10µF 35V	nsp
C382		nsp	ELECT 10µF 35V	nsp
C383		nsp	CER. 220pF 50V K	nsp
C384		nsp	MYLAR 2200pF 50V J	nsp
C385				
∫		nsp	ELECT 10µF 35V	nsp
C388				
C389		nsp	CER. 220pF 50V K	nsp
C390		nsp	CER. 220pF 50V K	nsp
C391		nsp	ELECT 10µF 35V	nsp
C392		nsp	ELECT 10µF 35V	nsp
C395		nsp	MYLAR 0.047µF 50V J	nsp
C399		nsp	CER. 0.047µF 50V Z	nsp
C401		nsp	MYLAR 0.1µF 50V J	nsp
C402		nsp	MYLAR 0.1µF 50V J	nsp
C403		nsp	MYLAR 0.01µF 50V J	nsp
C404		nsp	MYLAR 0.01µF 50V J	nsp
C405		nsp	MYLAR 0.047µF 50V J	nsp
C406		nsp	MYLAR 0.047µF 50V J	nsp
C407		nsp	MYLAR 0.01µF 50V J	nsp
C408	F/K/L/N	nsp	MYLAR 0.01µF 50V J	nsp
C409		nsp	MYLAR 0.1µF 50V J	nsp
C410		nsp	MYLAR 0.1µF 50V J	nsp
C411		nsp	MYLAR 0.01µF 50V J	nsp
C412		nsp	MYLAR 0.01µF 50V J	nsp
C413		nsp	ELECT 4.7µF 50V	nsp
C414		nsp	CER. 0.01µF 50V Z	nsp
C415		nsp	ELECT 47µF 50V	nsp
C416		nsp	ELECT 47µF 50V	nsp
C417		nsp	CER. 0.01µF 50V Z	nsp
C418		nsp	ELECT 100µF 50V	nsp
C419		nsp	CER. 0.01µF 50V Z	nsp
C420		nsp	ELECT 47µF 50V	nsp
C501		nsp	CER. 47pF 50V J	nsp
C504		nsp	CER. 47pF 50V J	nsp
C506		nsp	CER. 47pF 50V J	nsp
C511		nsp	ELECT 470µF 10V	nsp

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
C512		nsp	ELECT 10μF 35V	nsp
C513		nsp	ELECT 10μF 35V	nsp
C514		nsp	ELECT 470μF 10V	nsp
C515		nsp	ELECT 10μF 35V	nsp
C516		nsp	ELECT 470μF 10V	nsp
C517		nsp	ELECT 10μF 35V	nsp
C518		nsp	ELECT 470μF 16V	nsp
C523		nsp	CER. 47pF 50V J	nsp
C524		nsp	CER. 47pF 50V J	nsp
C527		nsp	CER. 47pF 50V J	nsp
C528		nsp	CER. 47pF 50V J	nsp
C531		nsp	ELECT 10μF 35V	nsp
C532		nsp	ELECT 10μF 35V	nsp
C533		nsp	ELECT 470μF 10V	nsp
C534		nsp	ELECT 470μF 10V	nsp
C535		nsp	ELECT 10μF 35V	nsp
C536		nsp	ELECT 10μF 35V	nsp
C537		nsp	ELECT 470μF 10V	nsp
C538		nsp	ELECT 470μF 10V	nsp
C539		nsp	ELECT 220μF 16V	nsp
C540		nsp	ELECT 220μF 16V	nsp
C541		nsp	ELECT 100μF 16V	nsp
C542		nsp	CER. 0.022μF 50V Z	nsp
			RESISTORS	
R101		nsp	4.7k Ω 1/5W J	nsp
R102		nsp	4.7k Ω 1/5W J	nsp
R103		nsp	1 Ω 1/5W J	nsp
R104		nsp	1 Ω 1/5W J	nsp
R105		nsp	75 Ω 1/5W J	nsp
R106		nsp	75 Ω 1/5W J	nsp
R107		nsp	75 Ω 1/5W J	nsp
R108		nsp	1 Ω 1/5W J	nsp
R109		nsp	1 Ω 1/5W J	nsp
R110		nsp	4.7 Ω 1/5W J	nsp
R111		nsp	100k Ω 1/5W J	nsp
R112		nsp	100k Ω 1/5W J	nsp
R113		nsp	100k Ω 1/5W J	nsp
R114		nsp	4.7 Ω 1/5W J	nsp
R115		nsp	4.7 Ω 1/5W J	nsp
R116		nsp	18k Ω 1/5W J	nsp
R117 ∫ R122		nsp	4.7 Ω 1/5W J	nsp
R123		nsp	1M Ω 1/5W J	nsp
R129		nsp	100 Ω 1/5W J	nsp
R130		nsp	33 Ω 1/5W J	nsp
R131		nsp	75 Ω 1/5W J	nsp
R132		nsp	4.7k Ω 1/5W J	nsp
R133		nsp	4.7k Ω 1/5W J	nsp
R134 ∫ R142		nsp	10k Ω 1/5W J	nsp
R143		nsp	4.7k Ω 1/5W J	nsp
R144		nsp	4.7k Ω 1/5W J	nsp
R145		nsp	33 Ω 1/5W J	nsp
R146		nsp	10k Ω 1/5W J	nsp
R147		nsp	33k Ω 1/5W J	nsp
R148		nsp	4.7k Ω 1/5W J	nsp
R149		nsp	4.7k Ω 1/5W J	nsp
R150 ∫ R154		nsp	33 Ω 1/5W J	nsp
R155		nsp	10k Ω 1/5W J	nsp
R156		nsp	33 Ω 1/5W J	nsp
R157		nsp	1.8k Ω 1/5W J	nsp
R158		nsp	470 Ω 1/5W J	nsp

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
R159		nsp	1 Ω 1/5W J	nsp
R190 ∫ R194		nsp	1k Ω 1/5W J	nsp
R201 ∫ R222		nsp	1k Ω 1/5W J	nsp
R223 ∫ R244		nsp	47k Ω 1/5W J	nsp
R255 ∫ R260		nsp	22k Ω 1/5W J	nsp
R261		nsp	1.5k Ω 1/5W J	nsp
R262		nsp	1.5k Ω 1/5W J	nsp
R263		nsp	4.3k Ω 1/5W J	nsp
R264		nsp	2.7k Ω 1/5W J	nsp
R265		nsp	4.3k Ω 1/5W J	nsp
R266		nsp	4.3k Ω 1/5W J	nsp
R267		nsp	2.4k Ω 1/5W J	nsp
R268		nsp	2.4k Ω 1/5W J	nsp
R269 ∫ R274		nsp	1k Ω 1/5W J	nsp
R275 ∫ R279		nsp	4.7k Ω 1/5W J	nsp
R280		nsp	18k Ω 1/5W J	nsp
R281 ∫ R284		nsp	12k Ω 1/5W J	nsp
R285 ∫ R290		nsp	100 Ω 1/5W J	nsp
R291 ∫ R296		nsp	100k Ω 1/5W J	nsp
R303 ∫ R316		nsp	100 Ω 1/5W J	nsp
R321 ∫ R329		nsp	4.7k Ω 1/5W J	nsp
R331 ∫ R334		nsp	1k Ω 1/5W J	nsp
R335		nsp	100k Ω 1/5W J	nsp
R336		nsp	100k Ω 1/5W J	nsp
R337		nsp	4.7k Ω 1/5W J	nsp
R338		nsp	4.7k Ω 1/5W J	nsp
R339 ∫ R342		nsp	470 Ω 1/5W J	nsp
R343		nsp	4.7k Ω 1/5W J	nsp
R344		nsp	4.7k Ω 1/5W J	nsp
R345		nsp	7.5k Ω 1/5W J	nsp
R346		nsp	7.5k Ω 1/5W J	nsp
R347		nsp	4.7k Ω 1/5W J	nsp
R348		nsp	4.7k Ω 1/5W J	nsp
R349		nsp	100k Ω 1/5W J	nsp
R350		nsp	100k Ω 1/5W J	nsp
⚠ R351		4822 053 10101	METAL 100 Ω 1W J	GA05101010
⚠ R352		4822 053 10101	METAL 100 Ω 1W J	GA05101010
⚠ R353		4822 053 10478	METAL 4.7 Ω 1W J	GA05047010
R356		nsp	100 Ω 1/5W J	nsp
R360		nsp	100k Ω 1/5W J	nsp
R361		nsp	100k Ω 1/5W J	nsp
R362		nsp	100k Ω 1/5W J	nsp

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
R363				
⟆		nsp	3.3k Ω 1/5W J	nsp
R366				
R367		nsp	5.6k Ω 1/5W J	nsp
R368		nsp	5.6k Ω 1/5W J	nsp
R369		nsp	9.1k Ω 1/5W J	nsp
R370		nsp	9.1k Ω 1/5W J	nsp
R371		nsp	47k Ω 1/5W J	nsp
R372		nsp	47k Ω 1/5W J	nsp
R373		nsp	100k Ω 1/5W J	nsp
R374		nsp	100k Ω 1/5W J	nsp
R381		nsp	100k Ω 1/5W J	nsp
R382		nsp	100k Ω 1/5W J	nsp
R383		nsp	5.6k Ω 1/5W J	nsp
R384		nsp	4.3k Ω 1/5W J	nsp
R385		nsp	18k Ω 1/5W J	nsp
R386		nsp	56k Ω 1/5W J	nsp
R387		nsp	100k Ω 1/5W J	nsp
R388		nsp	100k Ω 1/5W J	nsp
R391		nsp	100k Ω 1/5W J	nsp
R392		nsp	100k Ω 1/5W J	nsp
R393		nsp	5.6k Ω 1/5W J	nsp
R394		nsp	5.6k Ω 1/5W J	nsp
R395		nsp	18k Ω 1/5W J	nsp
R396		nsp	18k Ω 1/5W J	nsp
R397		nsp	100k Ω 1/5W J	nsp
R398		nsp	100k Ω 1/5W J	nsp
⚠ R401				
⟆		4822 117 13673	FUSE 0.47 Ω 1W J	*NH000090R
⚠ R404				
R405		nsp	8.2 Ω 1/5W J	nsp
R406		nsp	10 Ω 1/5W J	nsp
R407		nsp	8.2 Ω 1/5W J	nsp
R408		nsp	47k Ω 1/5W J	nsp
R409		nsp	1.2k Ω 1/5W J	nsp
R410		nsp	1 Ω 1/5W J	nsp
R411		nsp	1 Ω 1/5W J	nsp
R501		nsp	68 Ω 1/5W J	nsp
R502		nsp	68 Ω 1/5W J	nsp
R503		nsp	68 Ω 1/5W J	nsp
R511		nsp	47k Ω 1/5W J	nsp
R512		nsp	75 Ω 1/5W J	nsp
R513		nsp	75 Ω 1/5W J	nsp
R514		nsp	47k Ω 1/5W J	nsp
R515		nsp	75 Ω 1/5W J	nsp
R516		nsp	47k Ω 1/5W J	nsp
R517		nsp	75 Ω 1/5W J	nsp
R518		nsp	390 Ω 1/5W J	nsp
R519		nsp	390 Ω 1/5W J	nsp
R520		nsp	390 Ω 1/5W J	nsp
R521		nsp	3.3k Ω 1/5W J	nsp
R522		nsp	3.3k Ω 1/5W J	nsp
R523		nsp	47k Ω 1/5W J	nsp
R524		nsp	4.7 Ω 1/5W J	nsp
R527				
⟆		nsp	75 Ω 1/5W J	nsp
R532				
R533		nsp	47k Ω 1/5W J	nsp
R534		nsp	47k Ω 1/5W J	nsp
R535		nsp	75 Ω 1/5W J	nsp
R536		nsp	75 Ω 1/5W J	nsp
R537		nsp	47k Ω 1/5W J	nsp
R538		nsp	47k Ω 1/5W J	nsp
R539				
⟆		nsp	390 Ω 1/5W J	nsp
R542				
R543		nsp	4.7 Ω 1/5W J	nsp
R544		nsp	3.3k Ω 1/5W J	nsp

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
R545		nsp	4.7 Ω 1/5W J	nsp
R546		nsp	3.3k Ω 1/5W J	nsp
⚠ R547		4822 053 10478	METAL 4.7 Ω 1W J	GA05047010
			SEMICONDUCTORS	
D101		4822 130 10667	DIODE ZENER MTZJ4.7BT (4.7V 1/2W)	HD30471000
D102		9965 000 10585	DIODE ZENER MTZJ3.3BT (3.3V 1/2W)	*HD301940R
D301		4822 130 11629	DIODE ZENER MTZJ6.8BT (6.8V 1/2W)	*HD301620R
D302		4822 130 11629	DIODE ZENER MTZJ6.8BT (6.8V 1/2W)	*HD301620R
D303		4822 130 80317	DIODE ZENER MTZJ5.1BT (5.1V 1/2W)	HD30511000
⚠ D401		4822 130 11628	DIODE BRIDGE KBU804	*HE200190R
⚠ D402				
⟆		4822 130 31878	DIODE 1N4003	HD200010AR
⚠ D405				
D406		9965 000 01304	DIODE ZENER MTZJ6.2BT (6.2V 1/2W)	*HD301710R
D407		4822 130 11676	DIODE ZENER MTZJ30BT (30V 1/2W)	*HD3011670R
D408		4822 130 31878	DIODE 1N4003	HD200010AR
D409		4822 130 31878	DIODE 1N4003	HD200010AR
D501				
⟆		4822 130 32778	DIODE 1SS133T-77	HD20015210
D506				
IC11		4822 209 31568	IC INVERTER TC74HCU04AFN	HC700400Z0
IC12		9965 000 10587	IC DIR AK4112A-VF-E2	*HC106950R
IC13		9965 000 10588	IC CODEC (AKM) AK4527B-VQ	*HC106940R
IC14		9965 000 10589	IC DSP CS493263-CL	*HC106960R
IC20		9965 000 10590	IC FUNCTION TC9164AF	*HC107020R
IC21		9965 000 10591	IC FUNCTION TC9163AF	*HC107010R
IC22				
⟆		9965 000 10592	IC OP AMP LA6462M	*HC106990R
IC26				
IC31		9965 000 09272	IC VOLUME M62446FP	*HC106980R
IC32				
⟆		9965 000 10592	IC OP AMP LA6462M	*HC106990R
IC35				
IC51		9965 000 10593	IC VCR FUNC LA7952	*HC106930R
IC52		9965 000 10593	IC VCR FUNC LA7952	*HC106930R
IC53		9965 000 10593	IC VCR FUNC LA7952	*HC106930R
Q101		4822 130 11617	TRS. KSC2316Y	*HT300580R
Q102		4822 130 11617	TRS. KSC2316Y	*HT300580R
Q401		4822 130 11621	TRS. KTA1271Y	*BA000760R
Q502		4822 130 11609	TRS. KSC2785Y	*HT300590R
Q503		4822 130 11609	TRS. KSC2785Y	*HT300590R
Q504				
⟆		9965 000 10444	TRS. KRC107M	*BA001070R
Q507				
Q509		4822 130 11609	TRS. KSC2785Y	*HT300590R
Q511		4822 130 11609	TRS. KSC2785Y	*HT300590R
Q512				
⟆		9965 000 10444	TRS. KRC107M	*BA001070R
Q515				
			MISCELLANEOUS	
BN11		nsp	WIRE ASS'Y	nsp
BN13		nsp	CONNECTOR HOUSING MOLEX35237-0810	nsp
BN14		nsp	WAFER MOLEX35237-1010	nsp
BN94		nsp	WAFER MOLEX35237-1010	nsp
BN95		nsp	CONNECTOR HOUSING MOLEX35237-0810	nsp
BN96		nsp	WIRE ASS'Y	nsp
CN10		nsp	WAFER CARD CABLE GF120-27S-TS	nsp

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MJI)
CN11		nsp	WAFER MOLEX 5267-04A	nsp
CN12		nsp	WAFER CARD CABLE GF120-17S-TS	nsp
CN12		9965 000 10583	CABLE CARD	*YU000910R
CN13		nsp	WAFER MOLEX35336-0810	nsp
CN14		nsp	WAFER MOLEX35336-1010	nsp
CN20		nsp	WAFER MOLEX35313-0310	nsp
CN21		nsp	WAFER	nsp
⚠ F903	K /N	9965 000 10573	FUSE SB 8A 250V	*FS000710R
⚠ F904		9965 000 10573	FUSE SB 8A 250V	*FS000710R
JK11		9965 000 00206	TERMINAL IN/OUT	*YT001770R
JK12		9965 000 00206	TERMINAL IN/OUT	*YT001770R
JK13		9965 000 00206	TERMINAL IN/OUT	*YT001770R
JK14		9965 000 00205	JACK IN/OUT	*YT001760R
JK15		9965 000 10596	MODULE OPTICAL (RECEIVE) TORX179	*YJ002360R
JK16		9965 000 10596	MODULE OPTICAL (RECEIVE) TORX179	*YJ002360R
JK17		9965 000 10597	JACK IN/OUT(B/B/B N-PLATE)	*YT002380R
JK18		4822 265 30993	MODULE OPTICAL TOTX178	YJ15000110
JK51		9965 000 10598	JACK S-VIDEO (2P/H) JY-5036-040	*YT002390R
JK52		9965 000 10598	JACK S-VIDEO (2P/H) JY-5036-040	*YT002390R
JK53		9965 000 10599	JACK BOARD	*YT002360R
JK54		9965 000 10599	JACK BOARD	*YT002360R
JK55		4822 265 11646	JACK VCR	*YT001730R
L101		nsp	COIL PEAKING (RADIAL) 10µH J 4X5	nsp
L102		9965 000 00221	BEAD CORE	*FN000090R
L103		nsp	COIL PEAKING (RADIAL) 10µH J 4X5	nsp
L104		9965 000 00221	BEAD CORE	*FN000090R
X101		9965 000 02026	CRYSTAL 12.288MHz	*JX000630R

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